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Saturday 29 August 2009

amateur

# Photographer

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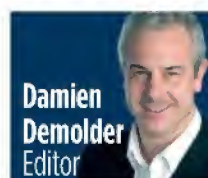


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Amateur Photographer For everyone who loves photography



## How much would you pay?



Just as the air we breathe, the water we drink and the food we consume has a direct impact on the condition of our body, so the

characteristics of the lens we fit on our camera plays a hugely significant role in the quality of the images we record. Health fanatics can spend their lives, and their fortunes, ensuring that they eat the 'right things' and still get sent to an early grave by undetected genetic issues that nothing could have prevented. In the same way, a brilliant lens can't make an imperfect camera perform well, but even so it does always pay to make the best of what we have. Particularly, we should avoid undermining the quality of a good camera with low-rent optics.

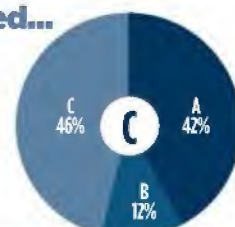
But just how good do our lenses need to be? And perhaps more importantly, how much do we need to pay for them? This week we are comparing a pair of lenses that do much the same job, but which are separated by about £4,000 (see pages 41-45). Having just spent the weekend correcting the fringing in hundreds of pictures taken with a less than perfect lens, my mood is optimised for high-optical quality. Measuring that mood in pounds sterling, though, is a business fraught with complications.

## Our question of the week

In AP 15 August we asked...  
Do you think you should shoot more still life?

You answered...

- A Yes, I will 42%  
B No, I shoot a lot already 12%  
C No, it's dull 46%



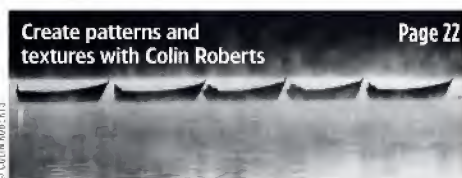
This week we ask...

What's the most you would pay for fixed focal length lens?

- A Up to £250 B Up to £400 C Up to £600  
D Up to £800 E Up to £1,000 F Up to £2,000  
G Up to £4,000 H More than £4,000

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## Send us your pictures

To have your pictures published in Gallery, send in a selection of up to ten images. They can be either a selection of different images or all have the same theme. Digital files sent on CD should be saved in a Photoshop-compatible format, such as JPEG or TIFF, with a contact sheet and submission form. Visit [www.amateurphotographer.co.uk/apgallery](http://www.amateurphotographer.co.uk/apgallery) for details. We cannot publish images without the necessary technical details. Each RGB image should be a minimum of 2480 pixels along its longest length. Transparencies and prints are also accepted. We recommend that transparencies are sent without glass mounts and posted via Special Delivery. For transparencies, prints or discs to be returned you must include an SAE with sufficient postage.

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## Our address and other contact details

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| + 14-42mm.....              | £629.99  |
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| Olympus 25mm F2.8.....     | £199.99 |
| Olympus 40-150mm.....      | £219.99 |
| Olympus 70-300mm ED.....   | £339.99 |
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News | Analysis | Comment | PhotoDiary 29/8/09

# News

**This campaign is for everyone who values visual imagery and press freedom... Photography is under attack**

New rights fight, page 6

**AP RIGHTS WATCH**  
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Former Jessops boss in shock outburst | Incensed chairman hits back

## Jessops fury as former boss attacks firm

**J**ESSOPS has left the photographic enthusiast behind in favour of the mass market and will not survive the recession without further restructuring, claims Tim Brookes, a former chairman.

Speaking on the BBC Radio 4's *Today* programme, Brookes – who left Jessops before it floated on the stock market in 2004 – said: 'I

think the demise really started after flotation, when the philosophy and strategy of the business suddenly changed.'

In the interview, broadcast on 19 August, Brookes added: 'Jessops was concentrating on the keen amateur photographer as its main customer.'

'I think they tried to keep up with the likes of Dixons, Argos and Boots... Jessops left its

true customer base behind.'

But current Jessops chairman David Adams quickly refuted Brookes' comments. He hit back, telling AP: 'We are not walking away from the core of the business, the camera enthusiast.'

Adams agreed that Jessops has increasingly focused on the mass market to compete with large retail chains and supermarkets.

However, he described Brookes' comments as 'ill-informed' and said it was a 'bit rich' to blame current management for its problems.

Adams, who joined Jessops in 2007, blamed the 'sins of the past', citing 'overexpansion, too many stores and too much debt' as the current team 'wrestle' with a trading position that does not support its borrowing.

Adams described some of Jessops' past acquisitions as 'crazy' and cited the '£60m' stock level of the business when he joined.

'There was this headlong rush for space at any cost with no infrastructure,' he said. 'Therein lies the problems of the company, not a desertion of its customer base.'

Commenting on the £60m debt, Brookes told the BBC: 'The trouble is the business is now being run for the bank, by the bank. It has lost its way.'

'The bank has to recognise that the business cannot service that level of debt. The bank has to take a hit. It is not acknowledging it has a problem.'

Adams retorted: 'We have made it very clear that we are working towards a solvent solution...'

The storm broke hours after Jessops reported a 4.7% fall in like-for-like sales for the 12 weeks to 16 August.

Tim Brookes led a management buyout team in 1996, following the retirement of Alan Jessop.

● See next week's *News* for a full interview with David Adams.



**Current chairman David Adams (right) largely blames Jessops' troubles on previous 'overexpansion' and denies recent claims by former boss Tim Brookes (left) that Jessops has left its core market behind**

## October debut for PowerShot G11

CANON has announced an 'October' debut for the PowerShot G11 – a ten-million-pixel camera boasting a 2.8in (461,000-dot resolution) vari-angle LCD screen and 'improved noise reduction'.

The G11's predecessor, the PowerShot G10, sports a fixed 3in monitor and 14.7-million-pixel sensor.

Features on the £569 G11 include a Dual Anti-Noise System. This enables the use

of an equivalent ISO of up to 3200, for full resolution images in 'difficult low-light conditions', says Canon.

The firm claims to have enhanced its Intelligent Contrast Correction technology, a mode that aims to help prevent highlight blowout, while retaining low-light detail.

A new Low Light mode is designed to achieve 'low noise levels at reduced resolution in a higher ISO

range'. Photographers can capture 2.5MP images at an ISO of up to 12,800, at a burst rate of '2.4 frames per second', adds Canon.

A spokesman said: 'The G11 also includes a built-in three-stop neutral density filter and white balance fine control that enables photographers to more accurately account for variations in natural and artificial light...'

Like the PowerShot G10,



the G11's zoom is designed to deliver the 35mm viewing angle equivalent of a 28–140mm lens (a double-sided aspherical element is included). The camera also houses shift-type image stabilisation.

For more Canon news see next week's issue.

**SNAP SHOT**

### CX1 successor

A faster burst rate and longer zoom and are among the claimed improvements on board the Ricoh CX2 – a digital compact set to replace the five-month-old CX1. Priced £299.99, the 9.29-million-pixel CX2 inherits many features from its older sibling, but sports a 10.7x zoom, designed to deliver the 35mm equivalent of a 28–300mm lens (the CX1 has a 28–200mm zoom). For details see next week's *News*.

### Bomb attack

An Associated Press photographer and videographer have been injured in a roadside bombing in Afghanistan. Photographer Emilio Morenatti, from Spain, and Andi Jalmiko, an Indonesian videographer who works for AP Television News, were with the US military in southern Afghanistan when they were wounded. Jalmiko suffered leg injuries and two broken ribs, reports the agency. Morenatti, who was badly wounded in the leg, underwent an operation that resulted in the loss of his foot.

### Pen E-P1 prize

Olympus E-P1 digital cameras are up for grabs in an online competition celebrating 50 years since the launch of the classic Pen camera. Entries will be judged by a TV presenter, a musician and two supermodels who are taking part in the project, called *Stories of the Eye*. For details visit [www.viceland.com/storiesoftheeye](http://www.viceland.com/storiesoftheeye).





COURTESY OF S. GROVE AUCTIONS

## Beatles photos star at auction

**I**NFORMAL snapshots of The Beatles have gone under the hammer at an auction in Dorchester, Dorset. The black & white images are thought to have been captured in the 'mid-1960s' when the band were on a trip to Bridport.

The five prints, two of which are duplicated, sold at Duke's Grove Auctions for £460 – four times more than expected.

The photographs were given to the vendor's mother by the owner of the Askers Road House Hotel where the Fab Four were staying. The hotel owner is pictured in one of the images.

The vendor, who declined to be named, remembers the excitement surrounding the band's visit: 'I recall my mother being excited one day. She was working in a

solicitor's office and the hotel owner arrived to tell her that The Beatles were planning to stay at the hotel.

'The next thing I knew, my mother arrived home with these photographs... I was a big fan in those days.'

A spokeswoman for the auctioneers told us that the pictures generated 'a lot of interest', including from dealers in Liverpool.



### Photo history

An amateur photographer from West Sussex has captured 110 portraits of his fellow villagers for an archive to be opened in 100 years' time. Ian Scotland said his subjects included local MP Frances Maude, along with doctors, dentists and local police officers. The images go on show at The Haven Centre, Hophurst Lane, Crawley Down, over the bank holiday weekend 29-31 August. For details call 01342 716 791 or visit [www.ianscotlandphotography.com](http://www.ianscotlandphotography.com).



STUART DE BOER

## Officer caught taking pictures

UNLIKE many photographers, this Police Community Support Officer escaped any accusation of acting suspiciously when he photographed a train leaving York Station.

Eagle-eyed photographer Stuart de Boer, from Leeds, said he took the photo in view of 'all the fuss over photography in stations at the moment'.

## ClubNews

AP's weekly round-up of club news from all over Britain

### Grange Photographic Society

The society plans to show selected prints from its annual open photography competition. The free exhibition takes place at the Stoneleigh Country Festival, near Coventry, Warwickshire, over the bank holiday weekend of 29, 30 and 31 August. Visit [www.stoneleighfestival.co.uk](http://www.stoneleighfestival.co.uk) or [www.grangeps.org.uk](http://www.grangeps.org.uk) for details.

### Donside Camera Club

The first weekly meeting of the new season kicks off on Thursday 3 September at Alford Public Hall, Alford, Aberdeenshire. For details call 01464 861 463 or visit [www.donsidecameraclub.co.uk](http://www.donsidecameraclub.co.uk).

### Sittingbourne Photographic Society

The society is holding an exhibition of work by four of its members in Sittingbourne Library until 27 August. This will be followed by a month-long general club exhibition. The library is located on Central Avenue, Sittingbourne, Kent ME10 4AH. Tel: 01795 476 545. Visit [www.sittingbourneps.co.uk](http://www.sittingbourneps.co.uk).

Send club news to: [apevents@ipcmedia.com](mailto:apevents@ipcmedia.com)



### Amateur Photographer

This week in...

# 1888

AP was very text-heavy in 1888, with only the occasional printed illustration. Therefore, the journal's editorial comment provided a critique of readers' photos but, alas, without the ability to show any. Some contributors may have been glad at the lack of picture publicity, however. A reader named 'JAE' had sent in his photos, only to be told by AP: 'Your photographs are all very poor and you have much to learn. Everyone possesses some fault and yours is exposure. Develop slowly, and be careful to bring out all the detail, print deeper and be careful to develop a uniform tone.' Lieutenant AH Appleton was more fortunate, with his photos of sergeant majors among the best AP had received. Yet mystery surrounds the contents of a written contribution by CE Maudslay, who missed out on a published reply to his enquiry, except to say: 'The many calls upon our space will not permit us to publish your letter.'



**NEW!!**

## Nikon D300s

- 12.3 million pixel
- HD video 1280x720 pixels
- Live view mode
- CF and SD storage
- 7fps burst rate
- Quiet shutter release option
- Magnesium alloy body sealed against dust/moisture

**D300s Body only £1499**



## Nikon D300

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- 6fps burst rate
- Live view mode
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**D300 Body only £1077**

## Nikon D700

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- Active D Lighting option
- Magnesium alloy body sealed against dust/moisture

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## Canon EOS 5D MKII

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# Review

Your guide to the latest photography books, exhibitions and websites

## Exhibition



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## World Press Photo 09

Until 5 September. Holyrood, the Scottish Parliament, Edinburgh EH99 1SP. Tel: 0131 348 5200. Website: [www.scottish.parliament.uk](http://www.scottish.parliament.uk). Open Mon-Fri 10am-5.30pm, Sat 11am-5.30pm (last entry 5pm). Closed Friday 28 August. Admission free

If you have flicked through the pages of the official *World Press Photo 09* book featured in *Review* on 4 July, you will have seen the power and diversity of this year's images. The annual World Press Photo competition, now in its 52nd year, celebrates the very best in photojournalism in all its raw, gritty detail and, for a short time, the winning images are on display in the UK. More than 60 images from ten categories, including 'Contemporary issues', 'Daily life' and 'Nature', feature in the touring exhibition. From chaotic images depicting war-torn

landscapes, world conflicts and clashes, to stark, intimate portraits, there is much here to inspire. Aside from overall winner Anthony Suau's image of an American law enforcement officer, viewers can admire both colour and black & white pictures taken by leading photojournalists from across the world. The photographs prompt debate about the world we live in and ask fundamental questions about the way we behave. For both inquisitive minds hungry for debate and casual observers, this is an exhibition not to be missed. **Gemma Padley**



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## DVD review



## Totally Dynamic HDR: An In-Depth Guide to HDR and Panoramas Using Adobe Photoshop and Photomatrix Pro

By Stuart Little  
DVD, £29.97 (plus p&p). Available from  
[www.thelittlephotoshop.net](http://www.thelittlephotoshop.net)

The ever-busy Stuart Little returns with his second DVD tutorial of the year, this time narrowing his focus from 'The Big Picture' (see AP 23 May) to the increasingly popular method of HDR. In this 5½-hour seminar, Stuart explains

how to make realistic-looking HDR images from capture to the computer in a series of 65 tutorials. Perhaps most useful, rather than simply talking, Stuart shows the viewer every step of his HDR image making in Adobe Photoshop and Photomatrix Pro software. The detail is painstaking, but you will not forget it.

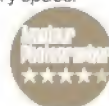
When using HDR it's very difficult to get the final product wrong, so precision matters. Stuart's slow and deliberate way of explaining the how and why of each step makes this very easy to follow. What's more, the DVD comes with a set of graduated filter effects for Photoshop. **Jeff Meyer**



## Website

[www.photographerslounge.co.uk](http://www.photographerslounge.co.uk)

Every so often a gallery website worth featuring in its own right catches the eye of the AP features team. The Photographers Lounge in Dorset is one such site. The gallery itself, which opened last year, is open to visitors daily, but if you are unable to get down to the south coast, you may be interested in browsing the website instead. Billed as 'a hub for discourse and innovation,' the site celebrates the work of established photographers as well as providing a platform for new photographic talent. What is particularly impressive about the site is the strength of the Portfolio section. Photographer portfolios include prolific '60s celebrity snapper Philip Townsend and Richard Heeps, whose shrewd observations of everyday life are enlightening and sentimental without being clichéd. With accompanying captions and artist profiles, the images are neatly arranged and easy to browse, and viewers can buy each image direct from the site. The ultimate aim of curators is for the website to become 'an online hub for photographers' in addition to the physical gallery space. While still very much in its early stages, the website shows promise and in time may well become the 'hub' for photographic discourse that it hopes to be. **Gemma Padley**



## Book review

## Thames From Its Source to the Sea and Back: the Whole River in Photographs

By Stephan Kaluza  
Thames & Hudson, hardback, 272 pages, £50,  
ISBN 978-0-500-54374-0

From its source in the Cotswold Hills to its mouth in the North Sea, the River Thames runs for 215 miles. In 2006, photographer Stephan Kaluza decided he wanted to photograph both banks of the river from start to finish. Pretty ambitious, but Kaluza has made similar ventures before, his previous book tracking the Rhine from its source to its mouth.

So, mostly by foot and partly by boat, Kaluza and his team followed the Thames as it shapeshifts through open fields, limestone villages and old medieval cities like Oxford before reaching the grandeur of London, through the flood barrier and out to the open sea. Taking photos of each bank every few seconds, they ended up with an

astonishing 30,000 images. Thankfully, only 262 panoramics make the final cut here.

It was an immense project, and for that (and the sheer patience required) Kaluza deserves a lot of credit. The only problem is the pictures just aren't that interesting. The novelty wears off after the first 25 miles or so, and from there it feels a bit samey. Like the great documentary travelogues by the Victorian photographers who charted Britain's industrialisation, *Thames* may provide a real visual treat in 100 years' time, but at the moment it's a bunch of pictures of people's gardens and shrubbery.

**Jeff Meyer**





# Letters

## Letter of the week

wins a 20-roll pack of 36-exposure Fujifilm Superia ISO 200 35mm film or a Fujifilm 4GB media card (in a choice of CompactFlash, SD or Memory Stick)\*. The sender of every letter published receives a free roll of Fujifilm Superia ISO 200 36-exposure film worth £4.99



**FUJIFILM**



### Getting twitchy

Damien Demolder's use of the term 'ornithography' (*From the Editor*, AP 1 August) brought back memories for me. While taking pictures in Bamburgh, Northumberland, many years ago, a friend and I saw two rowdy, tattooed biker types coming towards us. We side-stepped into a nearby pub only for the tattooed two to follow us in. They were carrying binoculars and Pentax Spotomatics complete with telephoto lenses. When we saw that one of them had a book about British birds, my friend exclaimed, 'Don't tell me you two tough guys are twitchers?'

'What's wrong with that?' came a mock-indignant reply. After a discussion in which we told them they looked more like rock band roadies than birdwatchers, we talked photography. I thought it was a little strange that one of them was using Kodak Tri-X to photograph such colourful subjects. He told me that he was a fan of Eric Hosking, who I now know took incredible mono pictures of birds.

The outcome of that meeting with the two hairy birdwatchers was that I married one of them. Steve has been my husband now for 28 years, and while he's not quite so hairy he is every bit as mad about photographing birds – and everything else, for that matter.

My late mum once quipped how lucky I was to marry a birdwatcher. 'How so?' I asked.

'Well', she replied, 'he *could* have been a trainspotter!'

**Amanda Smith, Northumberland**

### In the club style

With regard to recent letters about unfriendly camera club members, I believe that with a bit of give and take, good humour and understanding of the vast breadth of human nature and range of personalities, a photography club can enrich one's enjoyment of our pastime, hobby or business. We must remember that humans have wide variations in education, interests and philosophies. Given a desire to interact and socialise, photography clubs can, if well run, embrace all personalities, attitudes and interests.

Herein lies the rub. Many clubs do not make all their members feel valued, and some refuse to change and embrace all characteristics. As such, these clubs become cliquey and frightening to enthusiasts, and we should all make the effort to include all levels of skills and enthusiasm, and let all views be allowed without belittlement.

**Steve Sanford, Lincolnshire**

### Cheap as chips

While I agree with Jonathan Warner's view in *Letters*, AP 15 August, that there are no 'How to...' articles in modern camera magazines relating to newcomers to film, I feel I must take issue with his underlying message that sending 120 film to a lab for processing is expensive. At Cheshire Photo Lab we process and contact sheet 120 film for the same price as 35mm, and even offer to email a copy of the contact sheet before returning the negatives to enable our customers to decide if they want any images scanning to disc or made up as prints. We process many rolls of film for Holga and Lomo users.

May I also state that trying out medium-format film photography is very inexpensive, and one can obtain negatives or slides that will be more than a match for files from the most expensive digital SLR. I bought an Agfa Isolette 6x6cm folding camera

on eBay for £8.50 recently. I paid £2 for a roll of Ilford FP4 120 with which to test it. If I had sent the film to my own lab for developing and a contact sheet, that would have added another £6 to the bill. So, for less than £20, one can begin to sample the delights of medium-format film photography without the hassle of buying developing tanks, chemicals, timers, and so on, or learning how to use them.

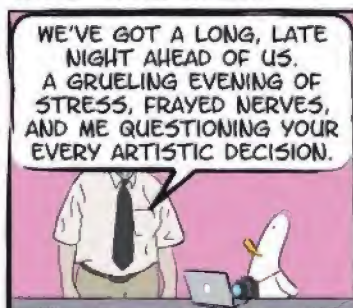
**David Dawson, Cheshire Photo Lab**

### Get what you pay for

I shared the woes of Shaun Pringle (Q&A, AP 1 August) when I used a Fujifilm FinePix S7000, an impulse second-hand purchase some five years ago that was financially unwise at the time, but which really started a love of photography. I wanted to extend the focal length in both directions from 35–210mm (equivalent). At the time, Fujifilm manufactured a 2x and, I think, a 0.7x converter, but they were horrendously expensive new and very rarely appeared on eBay. I therefore bought a succession of converters that claimed to be 'made for' the camera, about four of which had to make the return journey to the Far East or USA. The worst, claiming to be 'fully digitally compatible' was a 3.2x converter that was delivered in a box marked 'for 8mm/Super 8mm!'. There was a tiny area in the middle of the frame that was almost in focus, but the rest was like looking through a generous blob of Vaseline. I eventually found an acceptable 2x converter and a daring 0.45x, which worked, but with huge barrel distortion and a strange bending effect at the edge that always had to be cropped out.

My advice is to limit your expectations, and go for trustworthy sourced optics with modest multiplication factors: the softening and distortion worsen with higher or lower numbers. Perhaps 2x or

### What The Duck



Write to Letters, Amateur Photographer, IPC Media, Blue Fin Building, 110 Southwark Street, London SE1 0SU  
fax to 020 3148 8130 or email to [amateurphotographer@ipcmedia.com](mailto:amateurphotographer@ipcmedia.com)

\* Please indicate whether you would like to receive Fujifilm film or a memory card (please state type preferred) and include your full postal address





## Head in the clouds

A recent photographic assignment put me on Cloud Nine. Aerial photography is truly elating. I'd like to let this picture of the Bandra-Worli sea link at Mumbai, India, speak for itself.

**Ritam Banerjee, Mumbai, India**

less, and 0.7x or more, as Fujifilm itself made for the S7000, would be a sensible limit.

**Dr David Perrotta, Hertfordshire**

## El grabbo

Since I started taking photography seriously, I've been on the lookout for competitions in which I could take part. I check the rules as a matter of course, but rarely find anything to object to, as regards copyright. Imagine my surprise, then, when following the same procedure in Spain, where I was living recently, I came across a set of rules that amounted to a total negation of the photographer's rights. The organisers of the competition, a regional newspaper, claimed unlimited use of all photos submitted, in any medium worldwide and for any purpose for the next two years – and it got worse! The winners were obliged to relinquish copyright of their photos permanently.

Why would anyone want to submit their pictures under such conditions? It caused me to lose all interest. A look at the rules of other photography competitions in Spanish newspapers and magazines revealed this rights-grabbing approach to be the norm, and apparently photographers accept it. I started wondering what the situation is in other countries. As for Spain, all I can say is, no way, José!

**Chris Dunham, Leicestershire**

## A zoom will do

I have just been reading the bird photography edition of your magazine



(AP 1 August), and it is excellent. I have been interested in wildlife photography for many years and currently use a Panasonic Lumix DMC-G1 and a 45-200mm lens for close-ups. Sure, you have to crop in to get at the detail, but the Panasonic has such good resolution that it isn't a problem. I think the photos below prove it.

**John Wilson, Essex**

**O**n a recent photographic trip to the Scottish town of Oban, I was lucky enough to experience a glorious blue-sky day, topped by a mouth-watering sunset. Standing at the front of McCaig's Tower, I looked down on the ferry port and out towards the island of Kerrera, watching as the land lost detail and transformed into a graphic silhouette. As the peach hues in the sky grew warmer, I rested my DSLR on a railing and activated the autofocus. The familiar *beep, beep* indicated that everything was sharp, so I fired a few frames off, adding a *click* to the acoustics. Pausing for breath, I became aware of a couple sitting on a bench behind me, quietly enjoying the vista. To my left stood three fellow photographers, each adding their own brand-specific *beep, beep, click, click* to this otherwise idyllic scene. Glancing back at the couple, it dawned on me that we photographers are sometimes a surprisingly selfish bunch.

This unexceptional incident made me question whether photographers, myself included, believe that ownership of a camera automatically entitles us to hog the view. While it may be true that we spend more time weather watching, tide dodging

**“We often pride ourselves on our sensitivity to our subject matter, but how about our sensitivity to those around us?”**

and observing the landscape than the average camera-less individual, who's to say that the dog walker or surfer straying into our carefully composed picture appreciates the scene any less than we do? While I was mulling this over the next day, I began to think about the couple on the bench again. Sitting

quietly in the fading light, they were as lost in the landscape as I was. For that brief moment we were unified in our appreciation of Mother Nature. How, then, would I have reacted if one of the pair had produced a mobile phone and started noisily chatting to a friend? Was I not just as guilty with the incessant beeping and clicking of my camera? Come to think of it, was I not standing right in front of them, partially obscuring the view?

These thoughts triggered a physical reaction in me. Out came the camera manual and, with a spot of menu searching, the beeping was soon disabled. As for the 'view hogging', well that's a harder habit to break. While I'm not suggesting that we throw away our research and planning by allowing someone else to soak up the view in our place, I do think that we could all be more sympathetic. As photographers, we often pride ourselves on our sensitivity to our subject matter, but how about our sensitivity to those around us? Perhaps it's time to widen our awareness. In my experience, a simple shimmy to the left or right will often free up the view for others, without altering a composition too dramatically. Just give it a go.



Your thoughts or views (about 500 words) should be sent to 'Backchat' at the usual AP address (see page 3). A fee of £50 will be paid on publication



Amateur  
Photographer  
Technique

# Photo Insight

**TOM MACKIE** EXPLAINS HOW HE BALANCED MIXED LIGHTING CONDITIONS TO CREATE THIS SPACE-LIKE IMAGE OF THE CITY OF ARTS AND SCIENCES COMPLEX IN SPAIN

**T**HERE are many interesting angles to take photographs from at the City of Arts and Sciences leisure complex in Valencia, Spain. The complex, which was designed by Santiago Calatrava and Félix Candela, and completed in 2005, consists of several buildings. In AP 1 August I talked about an image I had taken of the El Palau de les Arts Reina Sofia opera house, and this is the same building but photographed from underneath an adjacent bridge. From this angle I could create a dynamic sweeping shape in my image.

During my visit, building work had been completed but the surrounding pools weren't yet filled with water. Fortunately, by the last day of my trip, the construction workers had filled half the pool and I was able to capture the reflections on the water's surface. First thing in the morning or last thing at night is the best time to photograph a scene like this because the wind is usually minimal so you get crisp, pristine reflections on the water.

I took this image as the sun went down. Crossover light or twilight is the time of day when the sun is below the horizon but there is still some colour in the light. The light is very soft and casts a diffuse effect on a scene. I did a recce the night before to work out when the best time would be to take this shot in terms of the amount of available light. After the recce I knew I had to have my camera set up and ready to shoot by 6pm – all I had to do then was wait for the light to drop to a level I was happy with.

I wanted to make sure the opera house was illuminated and the bridge wasn't completely black. The opera house is not lit by external lights – instead, the lights from the bridge cast the soft illuminations you see. There is a

## The AP experts

Each week, one of our team of experts of Steve Bloom, David Clapp, Tom Mackie and Clive Nichols will reveal the secrets behind one of their great images. This week it's Tom Mackie

### TOM MACKIE Architecture

As an internationally respected architectural photographer, Tom brings a wealth of experience to AP



smooth gradation of light on the surface because the building isn't lit directly.

I took this image using my Canon EOS 5D and a 17-40mm lens. With the advances in digital imaging, it is much easier to capture a balanced exposure in mixed lighting conditions. When using film, you need filters to balance the light, and the limitations of a film's sensitivity mean the window of opportunity for taking pictures is reduced. With digital imaging this isn't the case. When I was taking this image, it was difficult to see detail in the area under the bridge and on the opera house, but the digital sensor was able to pick out detail in even the darkest areas. The high sensitivity of the sensor also meant I could take pictures for a longer period of time.

Using an aperture of f/16, I set up my camera on a tripod so I could use a long exposure of 15secs at ISO 100. To shoot handheld in low light you would need a higher ISO setting.

I took this image at the widest focal length of the lens to capture as much of the scene as possible. Instead of



featuring the whole opera house, I chose to include only a hint of the building and use the bridge to frame it. I also made sure the building didn't merge with the curve of the bridge by adjusting my shooting position. With architectural photography it is a good idea to also use a spirit level to ensure any lines, and the horizon in particular, are straight.

The buildings at the City of Arts and Sciences complex are quite surreal and at night they look supernatural. By playing around with your shooting position you can find an angle that makes the structures appear more alien-like and unusual. **AP**

To see more images by Tom visit [www.tommackie.com](http://www.tommackie.com)





## Talking technique

When I'm taking pictures after the sun has gone down, I try to capture the afterglow rather than a completely dark sky. Sometimes changing your white

balance in low-light conditions can create interesting colour effects. I took this image in raw and used auto white balance. Although using auto white balance is great for balancing the light in mixed lighting conditions, try altering your white balance setting and see what effects you can create. When shooting raw you can make

changes to the white balance during post-processing, but if you are working in JPEG try switching your white balance setting at the time of shooting. For example, if you switch to cloudy white balance when taking pictures just after sunset, you can often pick up a pleasant hue from the sky, which warms the scene and gives

a lovely glow to the buildings. Conversely, the tungsten setting will make the overall tone quite blue and cold, so you could try using this setting to bring out the blue tones in a scene. The only drawback is the buildings won't be as warm in colour. Experiment with the settings and see what works best.





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### This week's **TOP 10** deals

- 1 Nikon D2HS Body**  
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- 2 Sony Alpha 900 Body**  
Condition = 4+ - **Cheltenham** ..... **£1499.00**
- 3 Rolleicord "Art Deco" (120)**  
Condition = 4+ - **Guildford** ..... **£99.00**
- 4 Nikon D3 Body**  
Condition = 4+ - **Bristol H/Fair** ..... **£2500.00**
- 5 Canon EOS 450D + 17-85mm IS**  
Condition = 4+ - **Colchester** ..... **£699.00**
- 6 Fuji S3 Pro Body**  
Condition = 4+ - **Nottingham** ..... **£379.99**
- 7 Nikon AF 105mm f2.8 VR Macro**  
Condition = 4+ - **Lincoln** ..... **£499.99**
- 8 Leica Minilux (35mm)**  
Condition = 5+ - **Southampton H/St** ..... **£249.00**
- 9 Nikon D300 Body**  
Condition = 5+ - **Winchester** ..... **£899.99**
- 10 Canon EOS 1D Mk III Body**  
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# The long and the thin of it



Panoramic pictures are striking and compelling, says **Charles Twist**, as he explains how to find the ideal subject and create strong compositions

**M**OST cameras produce pictures that fall within a narrow range of formats, where the aspect ratio varies from 1:1.17 to 1:1.5. These formats have a little asymmetry but not too much, establishing a versatile foundation for composition. Composing within an elongated frame – an aspect ratio of 1:3, for instance – presents the challenges of maintaining good balance, structure and drama. With its exaggerated length, how do you create a memorable picture in the

panoramic format? The first part of the answer is equipment, while the second lies in the art of composition.

Panoramic pictures are either strips of 120 or 220 roll film measuring 5.6x17cm ±1cm (known as 6x17cm) or are made by stitching together pictures taken on a camera with a smaller aspect ratio. The latter is especially common today, with many software articles available to take you through each step. For the purpose of this article, I would prefer to discuss the film alternative, which has

two fundamental advantages over digital imaging. First, when stitching digital images together, the conditions, not uncommonly, will have changed between the first and last shot, whereas making photographs is about capturing a single moment. Second, a lot of work is needed at the post-processing stage to match up two parts in a series of digital images where there was a lot of movement (the ocean waves or vegetation, for example) or a change in the light.

Manufacturers of 6x17cm cameras include Linhof, Ebony and Gaoersi. Various models are available second-hand, including the legendary Fuji G617 and GX617, and the Fotoman 617. These cameras are highly specialised, so for flexibility and value for money I prefer to attach a roll-film holder to the back of my large-format view camera. This gives me the choice of shooting in either 5x4in or 6x17cm format. I also get to choose the focal length of the lens, plus, as I will go on to explain, I can control the focal plane and perspective, which is something the dedicated cameras do not always allow. Manufacturers of roll-film backs include Horseman, Canham, Shen-Hao and Da Yi.

All the photographs in this article were taken on folding view cameras, with either a 135mm or a 120mm lens. These lenses produce a 6x17cm picture, which on the short axis is equivalent to a picture taken with a 210mm lens, while the long axis equates to a 90mm lens (on a

**Top: Two decaying boats huddle together in death beside their old slipway. The weather and sense of open space complete the metaphor**

Linhof Technikardan, Fujinon SW120mm f/8, Fujichrome Velvia 50

**Above: The old pier at Skinningrove in Cleveland was used to ship out local iron and steel. The wide angle of view reveals the full extent of the pier and the brutality of its faded architecture**

Toyo 45A, Caltar II-N 135mm f/5.6, Fujichrome Velvia 50







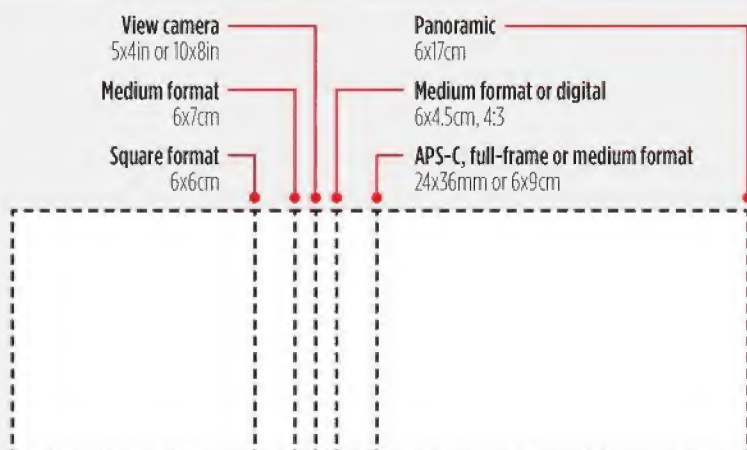
full-frame DSLR these focal lengths correspond to 60mm and 25mm respectively). As such, this format combines a wide angle of view along the long axis, with the foreshortened perspective of longer lenses.

The key to composition is to squeeze all the elements of the photograph into the diminutive short axis while spreading them out over the considerable length. This maintains interest throughout the picture. Initially, it helps to take a composition from a squarer format and simply stretch it, since a successful composition still relies on the identification of visual cues and their distribution within the frame. Also, it is a good idea to limit the number of cues as much as possible in order to maximise the picture's legibility.

In landscape photography, it is very natural to use the 6x17cm format horizontally, in order to emphasise the sweep of the land while removing from the picture distracting or boring subjects beyond and before the main subject. In squarer formats, the foreground is usually placed at the bottom and the background at the top, but in the horizontal

**A peaceful dawn over Errington ridge in Cleveland on a cold winter morning. Roseberry Topping can be seen in the distance**

Toyo 45A, Caltar II-N 135mm f/5.6, Fujichrome Velvia 50



### Common aspect ratios

This diagram shows how strikingly different the panoramic format is, relative to the more common formats on the market. Even less common formats, such as 5x7in and old standards such as whole plate (8 1/2 x 6 1/2 in) fall within the narrow range from 1 to 1.5. Composing for 6x17cm requires its own rules and therefore enables the photographer to create truly distinctive pictures.





ALL PHOTOGRAPHS © CHARLIE FINCH

6x17cm format, there is little room to develop the subject from top to bottom. Here, the development must proceed from side to side. I have often found successful compositions by placing a prominent foreground feature to one side of the picture and then letting the view unfold from there. It creates a narrative, where the subject's story evolves as the eye travels the length of the frame.

A view camera facilitates this manner of composition and is therefore better than a fixed-plane camera. The mechanical flexibility of the view camera gives subtle control of the focal plane. By swinging the lens, the focal plane can travel from a foreground placed on the left or right of the frame to a background on the opposing side. However, the focal plane need not be parallel to the

**Sunrise over Robin Hood's Bay in North Yorkshire. There was little visual interest in the sky so it made sense to use the 6x17cm format, which concentrates the attention on the village and the cliffs beyond**  
Toyo 45A, Caltar II-N 135mm f/5.6, Fujichrome Velvia 50.

## ☞ The mechanical flexibility of the view camera gives subtle control of the focal plane ☞

top and bottom edges of the frame. Combining swing with tilt means it can run diagonally. In this way, sharp focus can be maintained from bottom left to top right or vice versa. Dropping certain elements of the picture out of focus gives them a secondary role, while the sharply focused elements drive the narrative. This permits complex compositions that work on many levels.

The view camera also gives the ability to control perspective, so that the verticals and/or horizontals of the subject are conserved in the photograph. This is especially useful given that the long axis corresponds to a wide-angle lens. I use this feature a lot in architecture photographs, where I shift the lens up or down (while keeping the back straight) in order to show more sky or foreground, or to show different features of the building. **AP**

## Fine-tuning your composition



**1** I have already discussed what makes a good composition in the 6x17cm format, but here I will look at what works and what doesn't. In this sequence of images taken on Iona, off the Scottish mainland, picture 1 takes a broad view of the scene. The colours are fairly muted and with the sun behind the clouds the light is diffused,

bathing the scene evenly. This brings out detail in the foreground, which defines the character of the locale. The composition, however, is not very strong. Some might say it is unforced and see that as a good thing, but if the opportunity presents itself I prefer to create a photograph that is about more than just the scene.



**2** By moving forward, I was able to de-clutter the foreground to produce picture 2. In this scene, I have drawn attention to the rock on the right-hand side of the foreground. The left-hand side of the picture is occupied by a looming mass of rocks. The colours are warmer and the first rays of sun are peeking through a gap in the clouds. The light is still soft enough to

impart detail to the foreground rocks, but the rocks on the left are dark and weigh the picture down. This has two consequences, good and bad: they root the picture on the left, allowing it to unfold from there and creating a storyline going left to right in the same manner that we write, which is natural to the western eye; but they also create an imbalance.



**3** I felt something was needed on the right-hand side that was at least as strong as the rocks on the left. It seemed that the chink in the clouds would allow the sun to make a brief appearance, so I swung the camera slightly to the right and took picture 3. I reduced the weight of the rocks on the left and made sure the sun and its reflections in the water had plenty of room on the right. The bright red of the sun draws the viewer's attention, and the picture now moves from left to right with visual cues at both ends. It has the dark root on the left and the open horizon on the right, so as the eye scans the picture the mind moves into it, away from the foreground. This imparts

a subtle diagonal from bottom left to top right that counters the inherent horizontality of the format.

The strong backlight now prevents me from showing much detail in the foreground beyond specular highlights, since transparency film – in this case Fujichrome Velvia 50 – has a narrow dynamic range of just about four stops. This foreground is therefore punctuated by bold silhouettes, which is acceptable given that I previously reduced its complexity and made it clearer to the viewer. The emphasis of the picture has moved from the texture of the land in picture 1 to the nature of the landscape in picture 3.



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| Coolpix S6 Kit, boxed and complete | MINT | £145.00 |
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| F6 body, boxed and complete                                 | EXC+ | £995.00  |
| F6 body   | EXC+ | £899.00  |
| F5 body, 50th Anniversary edition, display box, (RRP £2300) | MINT | £1495.00 |

F5 body, 50th Anniversary edition, display box, (RRP £2300)

|                               |       |         |
|-------------------------------|-------|---------|
| F5 body, boxed                | EXC++ | £995.00 |
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| F5 body                       | EXC+  | £345.00 |
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| FE2 body, chrome   | EXC++ | £225.00  |
| FE2 body, chrome   | VG    | £179.00  |
| FE2 body, black  | VG    | £149.00  |
| FA body, chrome  | EXC+  | £199.00  |
| FA body, black   | EXC   | £225.00  |
| F2 body (with DE-1 eye-level finder) chrome                    | EXC+  | £425.00  |
| F2SB Photomic body, chrome                                     | MINT  | £1795.00 |
| F2SB Photomic body, chrome                                     | VG    | £495.00  |
| F2AS Photomic body, chrome                                     | EXC+  | £399.00  |
| F2A Photomic body, chrome                                      | MINT  | £495.00  |
| Nikkomat FS body, chrome RARE non-metered version              | VG    | £249.00  |
| Nikkomat EL body, chrome                                       | EXC+  | £95.00   |
| Nikkor F body, chrome & 5cm f/2 Nikkor-S (Rare German version) | EXC++ | £2999.00 |
| Nikkor F Photomic FTn finder, chrome (Rare German version)     | EXC++ | £495.00  |
| F body, chrome, mirror-up version by Marty Forscher, RARE      | VG    | £875.00  |
| F-36 Motor Drive unit 'F' script & Nippon Kogaku logo          | VG    | £350.00  |
| MD-2/MB-1 Motor Drive Unit for F2 series                       | MINT  | £325.00  |
| MD-4 Motor Drive for F3 series, Last of the new stock list RRP | NEW   | £610.00  |
| MD-4 Motor Drive for F3 series                                 | NEW   | £450.00  |
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### NIKON 35MM RANGEFINDER EQUIPMENT

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| Nikon SP body, black & 3.5cm f/1.8 W-Nikkor lens, black, Limited Edition, double boxed, last of the brand new stock                    | NEW   | £4995.00 |
| Nikon S3 body, chrome & 5cm f/1.4 Nikkor lens, black, Limited Edition, double boxed, with S3 leather case, last of the brand new stock | NEW   | £3800.00 |
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| Nikon S body, (8 digit camera), chrome & 5cm f/1.4 Nikkor-S.C  |       |          |
| Instruction manual, warranty card, box   | EXC++ | £3599.00 |

### AF (AUTOFOCUS) NIKKOR LENSES

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| 14mm f/2.8D AF Nikkor, case, boxed                           | EXC++ | £985.00  |
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| 105mm f/2.8D AF Micro-Nikkor, boxed                          | MINT  | £475.00  |
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| 180mm f/2.8D AF IF-ED Nikkor                                 | EXC++ | £495.00  |
| 200mm f/4D AF IF-ED Micro-Nikkor, lens hood, case, boxed     | MINT  | £1095.00 |
| 200mm f/4D AF IF-ED Micro-Nikkor, lens hood                  | MINT  | £1049.00 |
| 200mm f/4D AF IF-ED Micro-Nikkor, lens hood                  | EXC++ | £995.00  |
| 200mm f/4D AF IF-ED Micro-Nikkor, lens hood                  | EXC+  | £975.00  |
| 300mm f/2.8G AF-S VR IF-ED Nikkor, case, hood                | MINT  | £3499.00 |
| 12-24mm f/4 G AF-S DX (IF) Zoom-Nikkor, hood                 | MINT  | £695.00  |
| 14-24mm f/2.8G AF-S IF-ED Zoom-Nikkor, hood, case, boxed     | MINT  | £1165.00 |
| 17-35mm f/2.8D AF-S IF-ED Zoom-Nikkor, case, hood, boxed     | NEW   | £1675.00 |
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| 28-100mm f/3.5-5.6G AF Zoom-Nikkor                           | NEW   | £95.00   |
| 28-105mm f/3.5-4.5D AF Zoom-Nikkor, boxed                    | MINT  | £245.00  |
| 28-105mm f/3.5-4.5D AF Zoom-Nikkor                           | MINT  | £225.00  |
| 28-200mm f/3.5-5.6D AF Zoom-Nikkor                           | EXC++ | £285.00  |
| 28-200mm f/3.5-5.6D AF Zoom-Nikkor                           | EXC+  | £235.00  |
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| 35-80mm f/4-5.6D AF Zoom-Nikkor                              | MINT  | £69.00   |
| 35-105mm f/3.5-4.5D AF Zoom-Nikkor, boxed                    | MINT  | £125.00  |
| 35-135mm f/3.5-4.5D AF Zoom-Nikkor N                         | MINT  | £145.00  |
| 70-180mm f/4-5.6D AF IF-ED Micro-Nikkor, hood                | EXC++ | £945.00  |
| 70-180mm f/4-5.6D AF IF-ED Micro-Nikkor, hood                | EXC+  | £895.00  |
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| 70-200mm f/2.8G AF-S VR IF-ED Nikkor (Tropical Grey version) | MINT  | £1795.00 |
| 70-210mm f/4-5.6 AF Zoom-Nikkor                              | EXC++ | £95.00   |
| 70-210mm f/4-5.6 AF Zoom-Nikkor, hood, boxed                 | MINT  | £175.00  |
| 70-300mm f/4-5.6 AF Zoom-Nikkor                              | EXC++ | £125.00  |
| 80-200mm f/2.8D AF IF-ED Zoom-Nikkor N, hood                 | MINT  | £725.00  |
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| 200-400mm f/4G AF-S VR Zoom-Nikkor, hood, case            | MINT- | £4195.00 |
| TC-14E 1.4x Teleconverter for AF-S/AF-I, boxed            | MINT- | £245.00  |
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| 8mm f/2.8 Fisheye-Nikkor AIS, cap, case RARE                        | MINT- | £3695.00 |
| 8mm f/2.8 Fisheye-Nikkor AI, cap, RARE                              | MINT- | £3495.00 |
| 15mm f/3.5 Nikkor AIS, boxed Last of the new stock (RRP £2450.00)   | NEW   | £1995.00 |
| 15mm f/3.5 Nikkor AIS, boxed  | MINT- | £1495.00 |
| 15mm f/3.5 Nikkor AIS, boxed  | EXC++ | £895.00  |
| 16mm f/2.8 Fisheye-Nikkor AIS                                       | MINT  | £549.00  |
| 16mm f/2.8 Fisheye-Nikkor AIS                                       | EXC++ | £495.00  |
| 16mm f/2.8 Fisheye-Nikkor AI  | EXC++ | £475.00  |
| 18mm f/3.5 Nikkor AIS, case, lens hood, boxed (RRP £1,550.00)       | MINT  | £995.00  |
| 18mm f/3.5 Nikkor AIS   | MINT- | £895.00  |
| 18mm f/4 Nikkor AI & HN-15 lens hood, VERY RARE                     | EXC+  | £495.00  |
| 20mm f/2.8 Nikkor AIS, boxed (RRP £1,000.00)                        | NEW   | £799.00  |
| 20mm f/2.8 Nikkor AIS, boxed  | MINT  | £599.00  |
| 20mm f/2.8 Nikkor AIS   | MINT- | £445.00  |
| 20mm f/3.5 Nikkor AIS   | MINT- | £289.00  |
| 20mm f/3.5 Nikkor AIS   | EXC++ | £245.00  |
| 24mm f/2 Nikkor AIS, boxed (RRP £990.00)                            | NEW   | £945.00  |
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| 24mm f/2 Nikkor AIS   | EXC++ | £545.00  |
| 24mm f/2.8 Nikkor AIS, boxed Last of the new stock (RRP £870.00)    | NEW   | £595.00  |
| 24mm f/2.8 Nikkor AIS, boxed  | MINT  | £495.00  |
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| 24mm f/2.8 Nikkor AI  | EXC++ | £295.00  |
| 24mm f/2.8 Nikkor AI  | VG    | £165.00  |
| 24mm f/2.8 Nikkor-N.C. Auto pre-AI, scalloped focus barrel          | EXC++ | £225.00  |
| 24mm f/2.8 Nikkor-N.C. Auto pre-AI, scalloped focus barrel          | VG    | £75.00   |
| 28mm f/2 Nikkor AIS, boxed (RRP £920.00)                            | MINT  | £599.00  |
| 28mm f/2 Nikkor AIS, boxed (RRP £920.00)                            | MINT- | £549.00  |
| 28mm f/2 Nikkor AIS   | EXC   | £379.00  |
| 28mm f/2 Nikkor AIS   | VG    | £345.00  |
| 28mm f/2 Nikkor AI  | EXC++ | £425.00  |
| 28mm f/2.8 Nikkor AIS   | NEW   | £545.00  |
| 28mm f/2.8 Nikkor AIS   | MINT  | £445.00  |
| 28mm f/2.8 Nikkor AIS   | EXC+  | £295.00  |
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| 28mm f/2.8 Nikkor AI  | MINT- | £195.00  |
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| 28mm f/3.5 PC-Nikkor (Perspective Control) (RRP £1,539.00)          | NEW   | £1195.00 |
| 28mm f/3.5 PC-Nikkor (Perspective Control), case                    | MINT- | £595.00  |
| 28mm f/3.5 PC-Nikkor (Perspective Control), case                    | EXC++ | £495.00  |
| 28mm f/3.5 PC-Nikkor (Perspective Control), case                    | EXC   | £395.00  |
| 35mm f/1.4 Nikkor AIS, boxed (RRP £1,350.00)                        | NEW   | £999.00  |
| 35mm f/1.4 Nikkor AIS, boxed  | MINT- | £799.00  |
| 35mm f/1.4 Nikkor AIS   | MINT- | £695.00  |
| 35mm f/1.4 Nikkor AIS, boxed  | EXC++ | £645.00  |
| 35mm f/2 Nikkor AIS   | MINT- | £395.00  |
| 35mm f/2 Nikkor AIS   | EXC++ | £345.00  |
| 35mm f/2 Nikkor AIS   | EXC+  | £295.00  |
| 35mm f/2 Nikkor AI  | MINT- | £299.00  |
| 35mm f/2 Nikkor AI  | EXC++ | £279.00  |
| 35mm f/2.8 PC-Nikkor (Perspective Control), last black knob version | MINT- | £375.00  |
| 35mm f/2.8 PC-Nikkor (Perspective Control), last black knob version | EXC++ | £349.00  |
| 35mm f/2.8 PC-Nikkor (Perspective Control), last black knob version | EXC+  | £245.00  |

|   |       |          |
|---|-------|----------|
| 35mm f/2.8 PC-Nikkor (Perspective Control), last black knob version                                       | VG    | £199.00  |
| 35mm f/2.8 PC-Nikkor (Perspective Control), silver knob version   | MINT- | £199.00  |
| 35mm f/2.8 PC-Nikkor (Perspective Control), silver knob version   | EXC+  | £185.00  |
| 35mm f/3.5 PC-Nikkor (Perspective Control), first version   | EXC   | £195.00  |
| 45mm f/2.8P Nikkor, chrome, filter, hood (RRP £440.00)  | NEW   | £275.00  |
| 45mm f/2.8P Nikkor, black, filter, hood, boxed  | MINT  | £745.00  |
| 45mm f/2.8P Nikkor, chrome, filter, hood, boxed   | MINT  | £249.00  |
| 45mm f/2.8P Nikkor, chrome, filter, hood, boxed   | MINT- | £215.00  |
| 45mm f/2.8 GN Nikkor AI'd   | EXC++ | £125.00  |
| 45mm f/2.8 GN Nikkor pre-AI   | EXC++ | £115.00  |
| 50mm f/1.2 Nikkor AIS, boxed (RRP £820.00)  | NEW   | £599.00  |
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| 50mm f/1.2 Nikkor AIS   | MINT- | £445.00  |
| 50mm f/1.2 Nikkor AIS   | EXC++ | £375.00  |
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| 50mm f/1.4 Nikkor AIS, boxed  | MINT  | £395.00  |
| 50mm f/1.4 Nikkor AIS, boxed  | MINT- | £299.00  |
| 50mm f/1.4 Nikkor-S Auto pre-AI, scalloped focus barrel, pointed meter coupling prong, chrome filter ring | MINT  | £300.00  |
| 50mm f/1.4 Nikkor-S Auto pre-AI, scalloped focus barrel   | EXC   | £145.00  |
| 50mm f/1.8 Nikkor AI  | EXC++ | £115.00  |
| 5cm f/2 Nikkor-S Auto, 'tick marked', scalloped focusing barrel, pre-AI                                   | MINT- | £995.00  |
| 55mm f/1.2 Nikkor AI  | MINT- | £595.00  |
| 55mm f/1.2 Nikkor-SC Auto, pre-AI, scalloped focusing barrel  | EXC   | £215.00  |
| 55mm f/1.2 Nikkor-SC Auto, pre-AI, scalloped focusing barrel  | VG    | £145.00  |
| 55mm f/2.8 Micro-Nikkor AIS, boxed (RRP £600.00)  | NEW   | £499.00  |
| 55mm f/2.8 Micro-Nikkor AIS, boxed  | MINT  | £399.00  |
| 55mm f/2.8 Micro-Nikkor AIS, boxed  | MINT  | £345.00  |
| 55mm f/2.8 Micro-Nikkor AIS, boxed  | MINT- | £275.00  |
| 55mm f/2.8 Micro-Nikkor AIS, boxed  | EXC+  | £195.00  |
| 58mm f/1.2 Noct-Nikkor AIS, RARE  | MINT- | £2495.00 |
| 85mm f/1.4 Nikkor AIS, lens hood, boxed (RRP £1,140.00)   | MINT- | £845.00  |
| 85mm f/1.4 Nikkor AIS, lens hood  | MINT- | £775.00  |
| 85mm f/1.4 Nikkor AIS, lens hood  | EXC++ | £895.00  |
| 85mm f/1.8 Nikkor-H, pre-AI, scalloped barrel   | VG    | £185.00  |
| 85mm f/2.8D PC Micro-Nikkor, case, lens hood, boxed   | MINT- | £875.00  |
| 85mm f/2.8D PC Micro-Nikkor, case, hood   | MINT- | £845.00  |
| 85mm f/2.8D PC Micro-Nikkor   | EXC++ | £895.00  |
| 105mm f/1.8 Nikkor AIS (RRP £920.00)  | MINT  | £749.00  |
| 105mm f/1.8 Nikkor AIS (RRP £920.00)  | MINT- | £719.00  |
| 105mm f/1.8 Nikkor AIS (RRP £920.00)  | EXC+  | £675.00  |
| 105mm f/1.8 Nikkor AIS (RRP £920.00)  | EXC+  | £649.00  |
| 105mm f/2.5 Nikkor AI   | EXC++ | £275.00  |
| 105mm f/2.5 Nikkor AIS  | MINT- | £375.00  |
| 105mm f/2.5 Nikkor AIS  | EXC++ | £295.00  |
| 105mm f/2.8 Micro-Nikkor AIS, boxed (RRP £1,160.00)   | NEW   | £799.00  |
| 105mm f/2.8 Micro-Nikkor AIS, boxed (RRP £1,160.00)   | MINT- | £575.00  |
| 105mm f/2.8 Micro-Nikkor AIS, boxed (RRP £1,160.00)   | MINT- | £545.00  |
| 105mm f/2.8 Micro-Nikkor AIS, boxed (RRP £1,160.00)   | EXC+  | £445.00  |
| 135mm f/2 Nikkor AIS (RRP £1,219.99)  | MINT- | £599.00  |
| 135mm f/2 Nikkor AIS (RRP £1,219.99)  | EXC+  | £495.00  |
| 135mm f/2 Nikkor AI   | EXC   | £395.00  |
| 135mm f/2.8 Nikkor AIS  | MINT- | £295.00  |
| 135mm f/2.8 Nikkor AIS  | EXC++ | £245.00  |
| 135mm f/2.8 Nikkor AIS  | EXC+  | £199.00  |
| 135mm f/2.8 Nikkor AIS  | EXC+  | £199.00  |
| 135mm f/3.5 Nikkor AI   | VG    | £159.00  |
| 180mm f/2.8 Nikkor AI   | MINT- | £399.00  |
| 180mm f/2.8 Nikkor AI   | EXC++ | £385.00  |
| 180mm f/2.8 Nikkor ED AIS (RRP £1,240.00)   | EXC++ | £625.00  |
| 180mm f/2.8 Nikkor ED AIS (RRP £1,240.00)   | EXC   | £425.00  |
| 200mm f/4 Micro-Nikkor AIS (RRP £1,179.00)  | EXC++ | £545.00  |
| 200mm f/4 Micro-Nikkor AIS (RRP £1,179.00)  | EXC   | £445.00  |
| 200mm f/4 Nikkor AIS  | EXC++ | £189.00  |
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| 200mm f/4 Nikkor AI   | EXC++ | £125.00  |
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| 300mm f/4.5 Nikkor IF-ED AIS  | MINT- | £595.00  |
| 300mm f/4.5 Nikkor IF-ED AIS  | EXC++ | £565.00  |
| 300mm f/4.5 Nikkor IF-ED AIS  | EXC++ | £565.00  |

|  |       |          |
|--|-------|----------|
| 300mm f/4.5 Nikkor AIS                                       | VG    | £365.00  |
| 300mm f/4.5 Nikkor AIS                                       | EXC   | £299.00  |
| 500mm f/8 Reflex-Nikkor, with case, HN-27 hood, 5 filters    | EXC+  | £475.00  |
| 500mm f/8 Reflex-Nikkor-C, with case, hood, 5 filters, boxed | MINT- | £495.00  |
| 500mm f/8 Reflex-Nikkor-C, with case, hood, 5 filters        | MINT- | £425.00  |
| 500mm f/8 Reflex-Nikkor-C                                    | EXC   | £395.00  |
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| 1000mm f/11 Reflex-Nikkor with focusing knob                 | EXC+  | £1595.00 |

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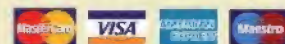
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|-----------------------------|-------|---------|
| TC-200 2X Teleconverter AI  | MINT- | £105.00 |
| TC-300 2x Teleconverter AI  | EXC   | £175.00 |
| TC-301 2x Teleconverter AIS | EXC   | £195.00 |

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|--|-------|---------|
| 28-50mm f/3.5 Zoom-Nikkor AIS, lens hood           | EXC++ | £275.00 |
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| 35-105mm f/3.5-4.5 Zoom-Nikkor AIS (RRP £589.00)   | NEW   | £499.00 |
| 35-105mm f/3.5-4.5 Zoom-Nikkor AIS                 | MINT- | £199.00 |
| 35-105mm f/3.5-4.5 Zoom-Nikkor AIS                 | EXC++ | £125.00 |
| 35-135mm f/3.5-4.5 Zoom-Nikkor AIS                 | MINT- | £275.00 |
| 80-200mm f/4.5 Zoom-Nikkor AI                      | EXC++ | £179.00 |
| 85-250mm f/4 Zoom-Nikkor pre-AI                    | VG-   | £195.00 |
| 100-300mm f/5.6 Zoom-Nikkor AIS, boxed             | MINT  | £279.00 |

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# Textures and patterns



Take a closer look at our coastline and countryside, says **Colin Roberts**, and you'll see a whole new world of picture opportunities

**T**EXTURES and patterns present a whole range of possibilities to the photographer, but for their potential to be exploited they need to be recognised and photographed well. Some of them are small scale, while others are transitory and short lived, but in either case they can make intriguing subjects.

## Textures

Texture tells us about the surface of a subject and lets us imagine what it would feel like, so in a photograph it's always a valuable source of information and can even be the key to understanding the rest of the picture. Alternatively, when seen alone and detached from its surroundings, a textured surface can take on a graphic or abstract look.

Most textures show up best when side-lit because every contour casts its own shadow, so bear this in mind when you

come across a suitable subject. Textures on the ground are best shot early or late in the day when the sun is low and cuts across the surface, with examples being ridges of sand on a beach, or clay which has shrunk and cracked once a puddle has dried up. On the other hand, sidelight for textures on vertical surfaces like tree bark can occur at any time of the day, depending on the aspect of the subject. Of course, if you're photographing a small detached object you can usually rotate it so that the sun's rays strike it obliquely. It is an interesting fact that by examining the texture in a photograph, you can reliably judge both the direction and quality of the light in which it was taken.

Apart from lighting, depth of field is the main technical consideration for shooting close-range details of texture. Keep flat surfaces parallel to the plane of your sensor and ensure that your chosen aperture gives a range of



**Strong sidelight helped to pick out the ridges on the surface of this weathered wood**  
Canon EOS-1Ds Mark II,  
50mm, 1/60sec at f/8,  
ISO 100

ALL PICTURES © COLIN ROBERTS







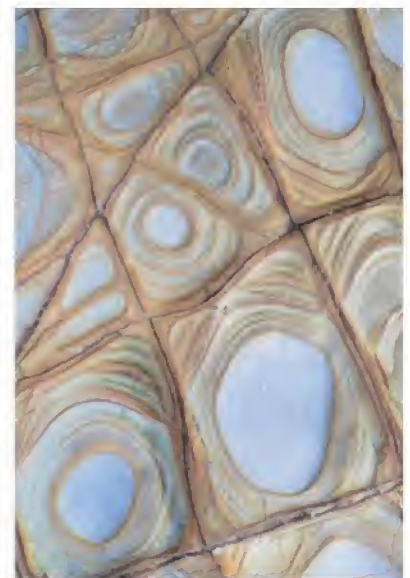
**Left: The low-angled sunlight helped to reveal the pronounced texture on these sand flats**

Canon EOS-1Ds Mark II, 20mm, 1/8sec at f/22, ISO 100, 0.6 ND grad filter



**Above: Leaf-miner insects had created an intricate pattern on this leaf surface**

Canon EOS-1Ds Mark II, 50mm, 2secs at f/16, ISO 100



**Above: I isolated an area of swirling patterns on this rock face for a frame-filling abstract**

Canon EOS-1Ds Mark II, 50mm, 1/2sec at f/16, ISO 100





A close-up of knotted wood and invading lichen on a holly tree  
Nikon F3, 105mm, 1/4sec at f/16,  
Fujichrome Velvia 50, polariser

### ☞ Showing texture to best effect is not always a case of isolating the subject from its surroundings ☞

➡ sharpness that is at least equivalent to the depth of the subject. A tripod is pretty much an essential, and remember it's worth using mirror lock-up for macro work to eliminate vibration.

Showing texture to best effect is not always a case of isolating the subject from its surroundings. Sometimes it's better to capture one texture against another, thus emphasising the contrast of surfaces. There are plenty of natural examples of this, such as smooth, rounded pebbles lying under a jagged rock face, where years of erosion have produced a contrast of surface types. Think how the sharp, spiky exterior of a chestnut pod contrasts with the polished dark nut inside, or how the smooth surface of drifting snow meets the rugged texture of a dry-stone wall. In any environment you can look for natural contrasts, and choose a viewpoint that brings them together within the frame.

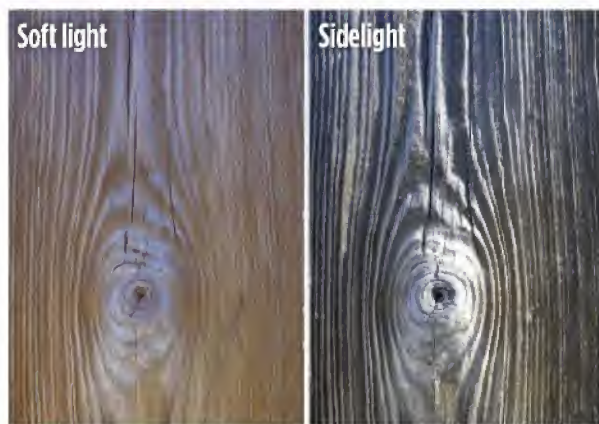
#### Patterns

There's an infinite variety of patterns to be found both in nature and in the man-made landscape. Like textures, they can be strong enough for images in their own right, or they can be used to add interest and structure to shots of the wider landscape. At one

extreme they can be huge and only visible from afar, like the meandering curves of a river seen from a hilltop, while at the other they may be tiny and only noticeable at close range. Patterns can often be found where nature produces a network of similar shapes like those of leaves, shells or bubbles. The work of man often results in repetitive features such as plantations of trees or rows of straw bales.

Yet not all patterns are immediately recognisable, so study your locations to make sure you don't miss out. By using a specific angle with a particular focal length, you may be able to form a pattern from a randomly spaced group of objects. For example, isolated trees on a stretch of moor may present a chaotic scene, but from the right viewpoint you may be able to compose a shot that shows several in a row, or a group of three forming a triangle. By using this sort of approach you can create a more harmonious image.

With careful cropping you can intensify the appearance of a pattern, by isolating the area that contains the most visual repetition or rhythm. For example, you could use a telephoto lens to frame a cluster of lily pads on the surface of a pond, using the concentration of circular shapes to



The first image was shot in soft light to emphasise pattern. The second shot is an identical composition, but sidelight to emphasise texture

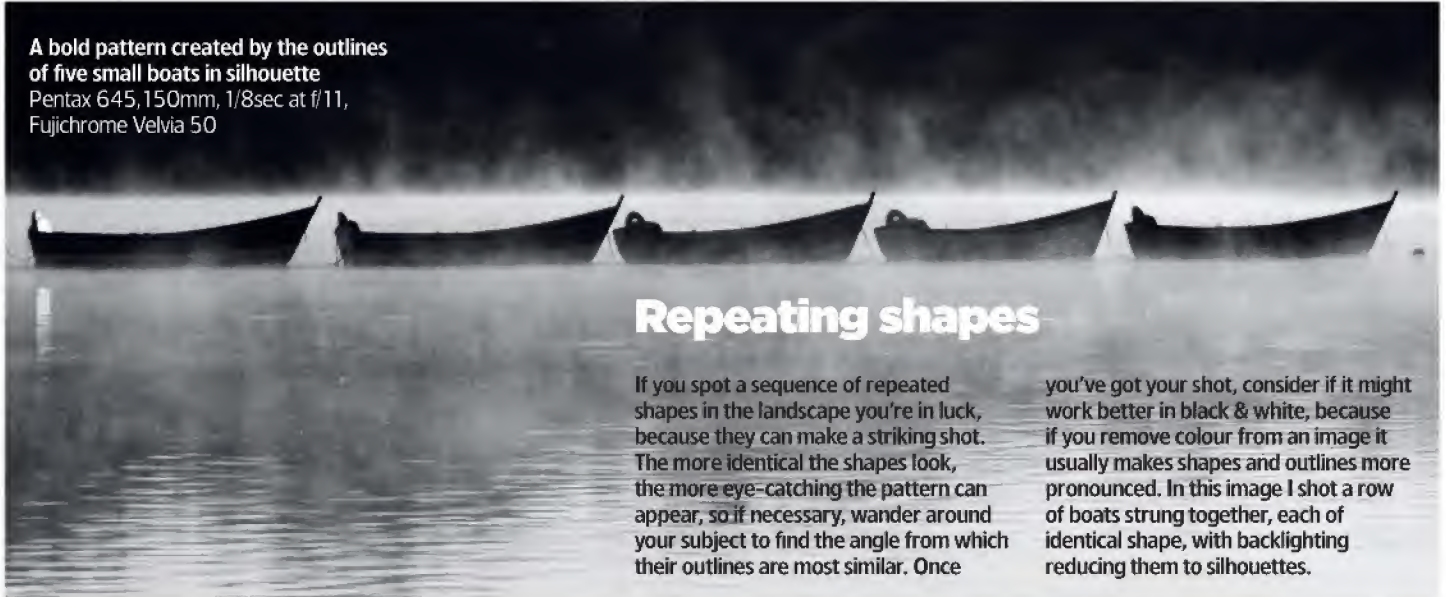
Canon EOS-1Ds Mark II, 50mm, f/16

### Texture vs pattern

In some instances, both texture and pattern are prominent in the same subject. An example is the grain structure seen on the surface of ageing wood, where the series of ridges give it a pronounced texture, but the different colours within the grain show as a pattern, which matches the ridges. Lighting is the key: in a strong sidelight only the texture can be seen, but this disappears when the light is softened, leaving only the tonal pattern. So where texture and pattern are combined, decide which you want to show and light the subject appropriately.



**A bold pattern created by the outlines of five small boats in silhouette**  
Pentax 645, 150mm, 1/8sec at f/11, Fujichrome Velvia 50



## Repeating shapes

If you spot a sequence of repeated shapes in the landscape you're in luck, because they can make a striking shot. The more identical the shapes look, the more eye-catching the pattern can appear, so if necessary, wander around your subject to find the angle from which their outlines are most similar. Once

you've got your shot, consider if it might work better in black & white, because if you remove colour from an image it usually makes shapes and outlines more pronounced. In this image I shot a row of boats strung together, each of identical shape, with backlighting reducing them to silhouettes.

create a graphic shot. Filling the frame is always a good approach when you're shooting for impact, because you're effectively stripping out what isn't relevant to your image.

We're probably all guilty of taking textures and patterns for granted now and again – especially when we're confronted with stunning views of coast or countryside. Yet while they may appear insignificant, we shouldn't forget that the land is pretty much made of them – in fact, without them, would there be any landscape at all? **AP**

**I moved in close with a macro lens to capture these wave-like patterns on the surface of a pool of silt**

Canon EOS-1Ds Mark II, 50mm, 1/500sec at f/8, ISO 500



## Breaking the pattern

One technique you can employ when you're shooting a strong pattern is to include something that interrupts the rhythm. It could be an object of a different colour or shape to the surrounding pattern, but whatever you choose it needs to provide some sort of visual contrast. This breaks the monotony of the pattern, but at the same time emphasises the visual repetition in the rest of the scene. Think of a single poppy among neat rows of barley or the figure of a solitary person wandering in a maze – both are examples of situations where a pattern becomes more obvious because it has been interrupted.

**A stray shell breaks the uniformity of this sand pattern**  
Canon EOS-1Ds Mark II, 135mm, 1/30sec at f/32, ISO 400





# EXCLUSIVE 4-DAY PHOTOGRAPHY WORKSHOP

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**A**P and WDC have teamed up with Light & Land – the UK's leading photographic tour company – to offer an exclusive workshop hosted by landscape legend Charlie Waite and AP Editor Damien Demolder.

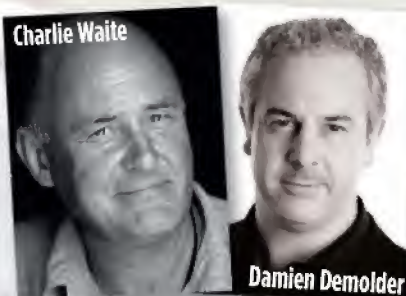
This exclusive tour will take place from 8-11 November in the beautiful English Lake District and will be limited to just 14 photographers, to ensure the maximum tuition and guidance throughout.

Based in the heart of the Lakes, in the beautifully situated Glenridding Hotel on the shores of Lake Ullswater, the group will use a private minibus to travel to locations further afield. Charlie Waite, the founder of Light & Land, has a wealth of experience photographing Lakeland landscapes and is

an expert at finding those magical compositions that often elude others.

The Lake District provides an astonishing variety of landscapes: from the bucolic beauty of sheep grazing in the Newlands Valley and the stark setting of the Neolithic Castlerigg Stone Circle beneath shapely Blencathra, to the lovely wooded shores of Rydal Water, the awesome Hard Knott Pass and the towering bulk of the Scafell range, England's highest mountain.

The evenings will provide the opportunity to receive constructive feedback on your work. This tour is designed to appeal to digital and film photographers of all levels and experience, regardless of the format they use.



## INFORMATION

**Dates:** 8-11 November 2009

**Price:** £830 per person before 30 September, £895pp after 30 September

**Includes:** Full-board accommodation, with daily packed lunch, transport during tour, tuition from Charlie Waite and Damien Demolder.

**Excludes:** Travel to and from hotel, insurance.

**Final booking:** 11 October 2009

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# SIGMA



## OUR WORLD

**Nathan Welton:** Born in 1977 in the United States. Has travelled the world photographing athletes engaged in adventure sports and horseback riding. Featured in advertisements, newspapers, magazines, and other media, his photos have been recognised with a variety of awards. His wedding photography company "Dreamtime Images" is an internationally known studio.

*Photo data: SIGMA 10-20mm F3.5 EX DC HSM, 1/640 second exposure at F6.3.*

### NATHAN WELTON SHOOTS THE WORLD WITH A SIGMA LENS.

In a Colorado national park, the snow-covered dunes stand out against the deep blue sky.

The striking contrast between the expansive sky, pristine dunes, and people passing through this landscape was captured by the Sigma 10-20mm F3.5 EX DC HSM lens. This super-wide angle zoom lens for digital SLR cameras has a maximum aperture of F3.5 throughout the entire zoom range and its super-wide angle enables breathtaking perspective and one-of-a-kind shots. ELD (Extraordinary Low Dispersion) glass, SLD (Special Low Dispersion) glass and aspherical lenses provide excellent correction of all types of aberrations. The Super Multi-Layer Coating reduces flare and ghosting and the incorporation of HSM (Hyper-Sonic Motor) ensures a quiet and high-speed auto focus.

\*Vignetting (a darkening of the corners of the image) will occur if the lens is used with digital SLR cameras with image sensors larger than APS-C size or 35mm SLRs, and APS SLRs.

**A super-wide angle zoom lens for digital SLR cameras that boasts a maximum aperture of F3.5 throughout the entire zoom range.**

## SIGMA 10-20mm F3.5 EX DC HSM

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## 1 Savo Ilic London 38pts

Nikon D60, 18-55mm, 1/200sec at f/13, ISO 200

◆ Savo, a videographer and keen wildlife photographer, had tried for several days to get a good shot of a damselfly. 'They mate in June, which is when I took this, so there were lots of them flying about,' says Savo. 'I tried several times, but either the light or the composition was wrong.' Finally, one sunny day, Savo spotted this large red damselfly resting on a leaf in his garden and immediately saw the potential for a striking image. 'When I saw the silhouette and the large eyes peeking over the top, I knew it was going to be the perfect picture,' he says. **Judges say** Where many photographers would opt for the standard view of the insect's body, Savo looked for a more unusual image. His patience and careful consideration of how he wanted to show his subject have created a more dynamic composition and an unusual picture.



## 2 David Hollingsworth Lincolnshire 37pts

Fujifilm FinePix S8100fd, 1/2sec at f/8

◆ David, an electronics engineer, made these bubbles in a large vase with a little washing-up liquid. He lit the scene with LED torches, using sweet wrappers to give different tones. 'I set my camera to its highest f-stop to increase depth of field, especially as I was shooting through glass, and my ISO was set low at ISO 64 to stop any noise,' he says. Afterwards he converted it to b&w and inverted it so the bubbles appear on the surface. **Judges say** Is it an alien landscape or are they stones? David has created a unique, and technically superb, image that makes the viewer think.







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for amateur photographers

# APOY 09

## AMATEUR PHOTOGRAPHER OF THE YEAR COMPETITION

In our **Looking Closer** round, you gave us bug's-eye views and showed us the finer details of nature's many structures

**Savo Ilic**, of London, has won first prize in our **Looking Closer** round of APOY, winning a Canon EOS 450D body, worth £669.99, and Canon's EF-S 60mm f/2.8 Macro USM lens, worth £509.99. The Canon EOS 450D is a 12.2-million-pixel DSLR offering 3.5fps capture capability for a continuous burst of up to 53 large JPEGs, as well as a nine-point wide-area AF to accommodate off-centre subjects. Canon's compact and lightweight EF-S 60mm f/2.8 lens offers full-time manual focus override. In total, Savo has won £1,179.98 worth of Canon kit.

Second prize of a Canon PowerShot SX10 IS, worth £426, goes to **David Hollingsworth**, of Lincolnshire. The 10MP PowerShot SX10 IS features a 20x wideangle zoom with optical Image Stabilizer for great telephoto performance.

In third place, **Koshy Johnson**, of Hull, will receive a pair of Canon's 8x25 IS binoculars, worth £384.99. At just 12cm wide and weighing only 490g, these compact, lightweight binoculars feature Tilt Mechanism Image Stabilizer, 8x magnification and battery power for six hours of continuous use.

### The leader board

The leader board remains largely intact this round, apart from a dramatic shift at the top. As usual, our judges were faced with a difficult choice in choosing a winner, as you provided a diverse and creative range of images in your entries into our Looking Closer round of APOY 2009. In the end, I think you'll agree that they made the best choices.

Moving to the top of the leader board is **Kathy Wright**, who by making the top 50 this round leaps just ahead of 2007 winner **Mani Puthuran**, who had held the top spot for several months. **Barry Harrington**, meanwhile, holds on to third place, followed by **Sean Slevin**, who climbs to fourth. **Phil Hargreaves**, **Peter Holloway**, **Lee Jeffries**, **Adrian Hall**, **Gary McGhee** and **Patrick Dodds** round up the top ten. Be sure to catch the results of Round 7, **Bold Colour**, in AP 26 September, and our announcement of Round 8, **Reflection**, in AP 5 September.



**3 Koshy Johnson**  
**Hull 36pts**  
Nikon D2x, 105mm,  
Fujichrome Provia, 2x flashguns

◆ Koshy, a GP from Hull, has captured what is perhaps the most dramatic image to win in a round of APOY, yet also one of the most compelling. Spotting this large group of ants while he was on holiday in India, Koshy gingerly placed a dead cockroach next to the swarm. 'They immediately pounced,' he says. 'I was amazed by their team work.' Working close, he skilfully set up two flashes on either side of the scene to get a more even exposure. **Judges say** This is a picture that grabs your attention and doesn't let go. Koshy has shown great ability and captured incredible detail in a picture worthy of some of the top nature photographers.



Third  
prize

|                    |        |                  |        |
|--------------------|--------|------------------|--------|
| 1 Kathy Wright     | 165pts | 6 Peter Holloway | 124pts |
| 2 Mani Puthuran    | 151pts | 7 Lee Jeffries   | 112pts |
| 3 Barry Harrington | 136pts | 8 Adrian Hall    | 107pts |
| 4 Sean Slevin      | 132pts | 9 Gary McGhee    | 105pts |
| 5 Phil Hargreaves  | 130pts | 10 Patrick Dodds | 103pts |





- 4 Sergio Moscato** Brazil **35pts**  
Canon A620, 29.2mm, 1/60sec at f/8  
'Flies in love' Judges say A well-observed moment that must have lasted only an instant. Sergio has also captured wonderful detail in the flies' bodies
- 5 Ann Mead** Bristol **34pts**  
Nikon D90, 105mm macro plus 36mm extension tube, 1/60sec at f/16, ISO 200  
Hoverflies mating Judges say Like Sergio above, Ann has very skilfully captured a fleeting moment in stunning detail
- 6 Fen Oswin** London **34pts**  
Nikon D3, 105mm macro, 1/320sec at f/9.0, ISO 200  
Poppy seed head Judges say Fen has taken a subject we've all seen before and transformed it into a new, unfamiliar object with his clever use of perspective
- 7 Lesley Williamson** Glasgow **34pts**  
Canon EOS 30D, 100mm macro, 3.2secs at f/16, ISO 100  
Parrot feather magnified by drop of water Judges say Lesley used only available light to capture this brilliant colour and symmetry
- 8 Paul Broadbent** North Lincolnshire **34pts**  
Canon EOS 40D, 150mm macro, 1/100sec at f/18, ISO 100, ringflash  
'Holding position' Judges say Paul has captured a stunning stop-motion image with almost perfect lighting. You often only get one chance to make a shot like this work, and Paul has done it very well
- 9 Peter Holloway** Lancashire **34pts**  
Olympus E-400, 35mm macro, 1/160sec at f/7.1, ISO 200  
'Eye level' Judges say There is a lot to like about this picture. Peter has got down low to the frog's own eye level, and rather than a frontal shot he has taken the frog's profile to make a picture we don't often see
- 10 Manuel Robles** Madrid, Spain **34pts**  
Canon EOS-1N, 180mm macro, 1/125sec at f/16, Fujichrome Sensia 100  
Praying mantis Judges say Manuel found this mantis at Plaza Mayor in Madrid and brought it home to shoot in better lighting. This extra effort has helped to make a beautiful image with a nice emphasis on shape and form
- 11 David Meredith** Warwickshire **33pts**  
Sony Alpha 700, 105mm macro, 1/125sec at f/16, ISO 200  
'Anemone' Judges say David shot this child's toy with a fractal filter to give





it a more abstract look. We love the light and how the tight frame makes you question what it is you are looking at

**12 Rob Smith** Norfolk **33pts**

Nikon Coolpix P5100, 47mm, 1/30sec at f/3, ISO 64

**Bracken Judges say** Using just a piece of card for a background and a small LED torch, Rob has given his subject a striking appearance. We love the fine details he captured in the fibres along the stem

**13 Sean Slevin** County Wexford, Ireland **33pts**

Fujifilm FinePix S7000

**'Cucumber-green spider'** **Judges say** Sean has captured wonderful colour, which is aided by the warmth created by the stunning side lighting. This is a wonderful picture

**14 Dennis Low** Hull **32pts**

Olympus E-1, 135mm, 1/180sec at f/4, ISO 100

**'Cat and Mouse'** **Judges say** Most of us would shoo our cats outside when they wake us at 5.30am. Dennis instead got his camera out and captured this shocking, yet captivating, cat's-eye view of his pet's latest kill





15



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18



**15 Nick Board** Berkshire **32pts**  
Canon EOS 5D, 150mm macro, 1/200sec at f/16, ISO 100, flashgun  
**Physalis** **Judges say** Stunning light and contrast. We like how Nick gave the pod extra space in the top of his frame

**16 Phil Hargreaves** Lancashire **31pts**  
Canon EOS 40D, 100mm macro, 10secs at f/22, ISO 100  
**'A pocket zip on my favourite old leather jacket'** **Judges say** This is a wonderful close-up of a familiar subject. We love the detail and texture

**17 Tom Matheson** Leicestershire **31pts**  
Nikon D300, 105mm macro, 1/200sec at f/16, ISO 200, 2x flashguns  
**Physalis fruit** **Judges say** Tom has skilfully filled his frame with this tiny subject and used a black background to emphasise its structure and shape

**18 Ashley Field** East Sussex **30pts**  
Olympus E-1, 14-54mm, 1/1600sec at f/4.5, ISO 100  
**Insect on glass** **Judges say** Ashley's silhouette, unusual angle, b&w conversion and the pattern of droplets has turned a familiar scene into something unique

**19 Kevin Harrison** North Yorkshire **30pts**  
Nikon D300, 60mm macro, 1sec at f/51, ISO 100  
**Drawing pins** **Judges say** Kevin has captured the perfect exposure in what must have been a tricky shot given the reflective surfaces of the pins

**20 Meredith Wilson** Greater London **30pts**  
Canon EOS 20D, 105mm macro, 1/40sec at f/9, ISO 200  
**Dandelion head** **Judges say** Meredith's black & white conversion serves to

enhance the repeated patterns of the seed heads, which she says reminded her of a fireworks display

**21 Nic Kirschner** Vancouver, Canada **30pts**  
Nikon D200, 80-200mm & 50mm, 1/2000sec at f/2.8, ISO 800  
**Canadian penny** **Judges say** Nic very cleverly mounted his 200mm lens, then reversed his 50mm and placed it on to the 200mm to make this moody, yet captivating macro image

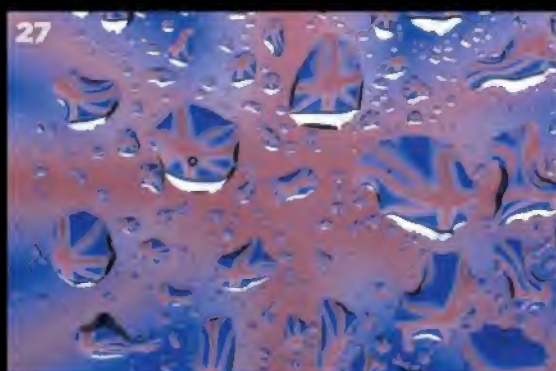
**22 Nick Pither** Lincolnshire **30pts**  
Canon EOS 5D, 70mm, 1/200sec at f/4.5  
**Smoke from incense stick** **Judges say** Wonderful contrast and strong lighting emphasise the shape and form of the smoke. A perfect abstract

**23 Richard Embeary** Gloucestershire **30pts**  
Nikon D40, 50mm, 1/125sec at f/2, Hoya +4 dioptre  
**'Deep in thought'** **Judges say** So many portraits are taken straight-on, but Richard has used an unusual angle and shallow depth to make this unique

**24 Simon Cotter** Cheshire **30pts**  
Canon EOS 400D, 17-70mm macro, 1sec at f/22  
**Black, and one red, peppercorns** **Judges say** A wonderful arrangement with fabulous texture, aided by the light from the lightbox on which Simon shot it

**25 Tim Oram** Suffolk **30pts**  
Nikon D2x, 105mm micro plus extension tube, ISO 100, flashgun  
**Vapourer moth caterpillar** **Judges say** We love the vibrant colours and the fine detail Tim has captured in the hairs on the caterpillar's back





**26 Tony Duhig** Cardiff **30pts**  
Panasonic Lumix DMC-FZ10, 432mm, 1/250sec at f/2.8  
'Down low at the edge of a crop field, Gloucestershire' **Judges say** A beautiful serene image. We love the softness, perspective and use of black & white

**27 Tony Rostron** North Yorkshire **30pts**  
Nikon FE, 50mm plus extension tube, 1sec at f/16  
Water droplets reflecting the Union Jack **Judges say** This is a well-observed image and very well executed. We salute the flag!

**28 Gary McGhee** Merseyside **29pts**  
Nikon D200, 90mm, 2secs at f/9, ISO 100  
Fungus growing out of a rotting log **Judges say** Gary has found an excellent background and exposure for this close-up study

**29 Henrique Souto** Lisbon, Portugal **29pts**  
Pentax 1st DL, 105mm macro, f/5.6, ISO 200  
Physalis head **Judges say** We love Henrique's yellow background and the wide aperture that throws most of the fruit out of focus

**30 Derek Dillon** Surrey **29pts**  
Yashica FX-3, 55mm plus extension tube  
Cheese grater **Judges say** Not only has Derek framed a wonderful pattern, but his near-perfect light has also brought out the small textures in the metal





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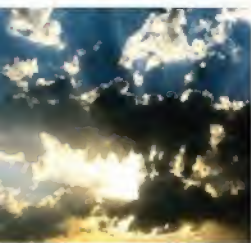
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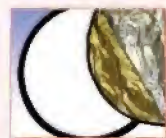
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Expert advice, help and tips from AP Editor Damien Demolder

# Appraisal

## How to submit your pictures

Send up to six prints, slides or images on CD (please include the original files from the camera along with your submitted versions on your CD). Tell us a little about the pictures and, if you can, include details of equipment used and exposure settings.

Send your photographs to 'Appraisal' at our usual address (see page 3). Please enclose an SAE if you would like them returned.

### Sunset ducks

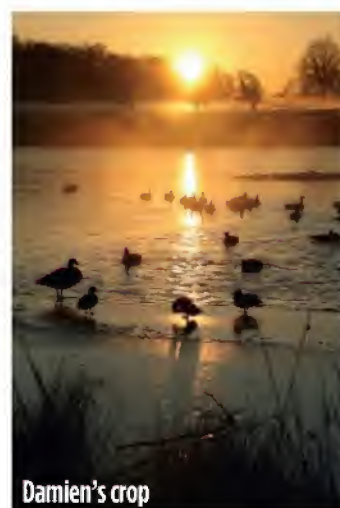
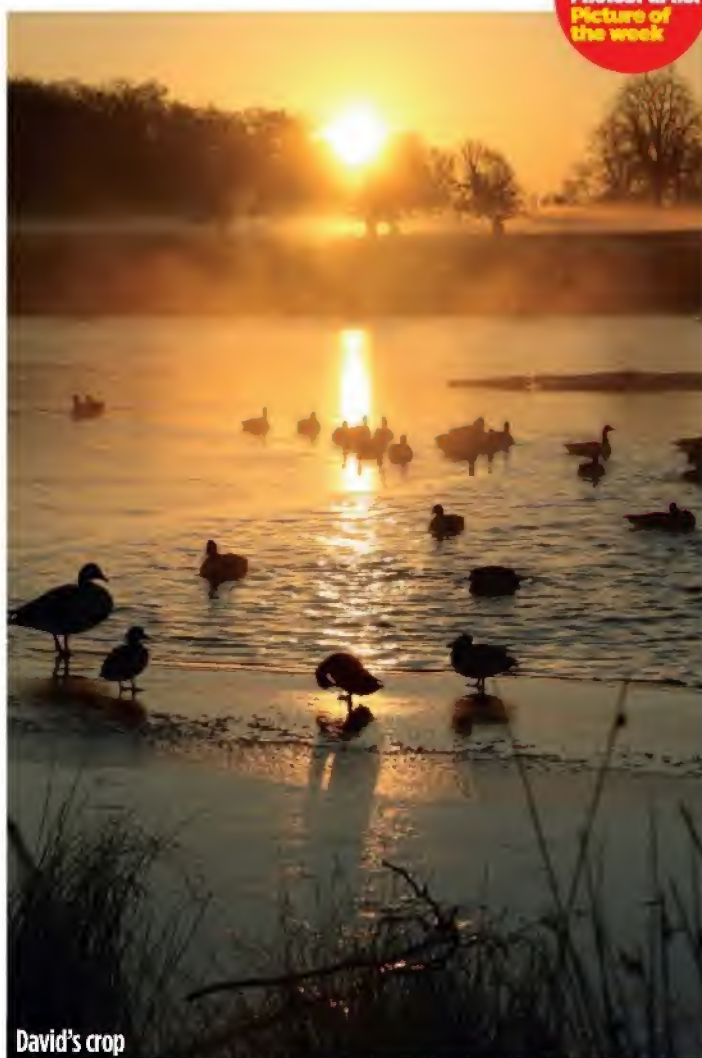
David Merritt

Canon EOS 350D, 61mm, 1/200sec at f/10, ISO 100

Despite the fact that ducks can be found in pretty much every park in the country, it's not easy to take a good picture of them. Here, David has really shown us how to do it. The reason I've chosen this picture is because it's not just an ordinary picture of ducks on a pond. There are added elements that make it far more interesting than that. First, the sun is low in the sky and the light is streaking nicely across the pond. Also, as the sun is partially concealed behind the trees on the far bank, we get a strong sense of the sun but without it blasting straight down the lens barrel onto the sensor. The mist on the water enhances the atmosphere and the layers really add depth to the scene: the reeds in the foreground that lead onto the beach, then the ducks in the water, the bank on the other side, the trees, then finally the field behind and the sun. So, while this is a picture of ducks on a pond, it's been done really well and makes for a really pleasing picture.

David tells me that he's a JPEG-happy snapper and makes regular use of the Program mode on his camera. It's always good to learn how to take control of the camera, but the most important thing is understanding composition and what makes a nice photograph, which David appears to do. He actually sent in two versions: the main image is a slightly cropped version of his original picture. David cropped the original to put the sun in the middle of the frame and remove the duck's tail that is encroaching into the left-hand side of the frame. Actually, David could probably have got away with a crop that wasn't quite so tight, because I like the depth given by the reeds in the foreground of his original image. Nevertheless, David's done a good job, and there are lots of successful elements that add up to make a really good picture, which is why it is my picture of the week.

Amateur Photographer  
Picture of the week





## Swan Elain Hall

Canon EOS 20D, 15-30mm

Elain has sent in a picture of a swan on a pond next to an industrial estate in north Tyneside. When you hear the image described like this, it sounds very exciting as there could be huge potential for great contrasts in the subject matter. For example, you might imagine an elegant white swan against a vast black factory pumping out smoke and noise. Unfortunately, though, what we have here is a rather boring industrial estate of office blocks. I'm all for showing pictures of animals in their natural

environment, and it's perfectly valid to show this swan as it is here because that is where it exists, but sadly these offices just don't make for an interesting picture.

However, the swan is beautifully posed and has been captured from just the right angle. Its wings are slightly up and set in that classic pose that swan figurines always have. There's some water dripping off the bird's beak (and unfortunately a long strip of weed), and the side lighting works nicely, giving us plenty

of shape and a 3D effect. Elain has done a great job of getting down low and photographing the swan on its level. It's a great effort, but it's such a shame about the background. There isn't much you can do about a location like this, other than wait for the bird to move on, but by cropping in we can show how the picture would have looked better without the background.

Alternatively, Elain could have tried to shoot the swan from a different angle, to keep those buildings out of shot. This goes to show just how important backgrounds are: it's not just the subject that the viewer looks at. It's a good attempt, though, and Elain should definitely continue to photograph swans. She just needs to pay more attention to what's going on in the background.

Original



Cropped



## Gorilla Jean Luc Bousquet

Canon EOS 5D Mark II, 120-400mm, 1/80sec at f/5.6

Zoos are a great place to take pictures, so long as you're careful and you know exactly what it is you want to photograph as it's difficult to photograph the animals without showing them in the zoo environment. You need to use a wide aperture and blur the background, making sure that it is some way behind the subject. Of course, the alternative is to deliberately photograph the animals in their environment and openly admit that your photographs were taken in a zoo. Either way, zoos present a good opportunity to get close to animals that you would not normally see.

Jean Luc photographed a range of different creatures at his local zoo using his Canon EOS 5D Mark II and Sigma 120-400mm lens, so he's very well equipped to come away with some fantastic shots. I've chosen this picture of a gorilla because these animals make such fascinating subjects with their human-like facial features and enormous, bulging bodies. However, considering

that the gorilla's face is such a big part of the attraction for humans, it's a little odd that Jean Luc hasn't included much of the gorilla's face in his picture. He's captured a profile shot, but what's really missing is eye contact. When a subject looks out of a picture at the viewer, there is an immediate connection between the two. Here we're looking at a gorilla that's obviously not interested in us, which means the viewer is not going to be interested in the gorilla. It effectively means that we are looking at an inanimate object, which is a shame.

Another problem is the background, where we can see a lady in a blue coat. Unfortunately, the positioning of the lady in the photo makes me think of *The Far Side* cartoons rather than gorillas. Jean Luc has some excellent kit; he just needs to think about how to use it a bit more. As I said earlier, the trick with this kind of picture is to get the animal looking into the lens, to really capture the creature's character.





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Welcome to our test, reviews and advice section. Over the next few pages we will present this week's equipment tests, reader questions and technique pointers

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**A**S LCD screens on the back of cameras get bigger and bigger, they are harder to avoid with your nose. As a result, it doesn't take long before the screen is covered in smudges that make it harder to see images clearly. Green Clean's Silky Liquid and Silky Wipe are ideal for dealing with this problem.

Although it is water-based, I found just one small squirt of the liquid, followed by a quick rub with the soft machine-washable cloth, was enough to remove the build-up of grime on the screen of a heavily used DSLR. It also appears to help the surface repel grease.

Silky Liquid is suitable for use on a wide range of surfaces, including touch screens, spectacles and lenses (both coated and uncoated), so it's useful to have around. **Angela Nicholson**

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**Leica** 24mm f/1.4 Summilux-M **vs** **Sigma** 24mm f/1.8 EX DG Macro

# Fixed wideangle lenses

**F**OR this special lens test, are we comparing a lens for a unique coupled rangefinder camera and one for fitting to a number of single-lens reflex camera brands? Well, not exactly. They are indeed being compared optically, but also more generally from the point of view of the handling philosophy of the two types of camera.

The Leitz Leica and the Zeiss Contax, which started the 35mm trend, were coupled-rangefinder cameras (CRF) with optical viewfinders. Nowadays, not one professional photographer at a sport's event uses a CRF as they all have single-lens reflex (SLR) cameras. What happened? Well, the SLR focusing screen shows what the lens is seeing and what will appear on the film or digital file. The coupled

rangefinder has a direct viewing optical finder. By turning the lens focusing ring until two views of the subject are superimposed, that subject plane will be in focus. The SLR viewing screen shows what the lens on the camera sees and on what feature the user focuses – or nowadays leaves to autofocus. It is with long focus and tele lenses that the SLR wins hand down.

The situation sorts itself like this: up to 135mm (many say 90mm) at the long focal length end, the coupled-rangefinder camera works technically well. Its direct vision finder allows the subject area to be sufficiently large to allow framing. At the wideangle, short focal length end the finder area will be good enough for framing down to 28mm focal length. By 24mm a supplementary viewfinder may be needed, as it definitely will for a

**Geoffrey Crawley** examines two wideangle lenses with the same fixed focal length, but which are for completely different imaging systems

21mm lens. So a coupled rangefinder camera's unaided focal length scope extends from about 28mm to 90mm.

## The coupled rangefinder clan

Why, then, has a galaxy of the finest photographers – from Henri Cartier-Bresson to Sebastião Salgado – stayed dedicated over decades to what appears to be a tool of limited utility? The answer lies in its ability to become an extension of the photographer's mind: to become a self-effacing tool in the hands. The direct vision viewfinder looking straight out is believed to give a closer visual contact, and so

involvement, with the subject. On the other hand, the SLR focuses the eye into the camera on a screened, transmitted image – forming a barrier between the photographer and the subject. The limitation on easy framing (composition) to 28–90mm lenses is less important as this is the focal length range over which the photographer's involvement with the subject can be best evidenced.

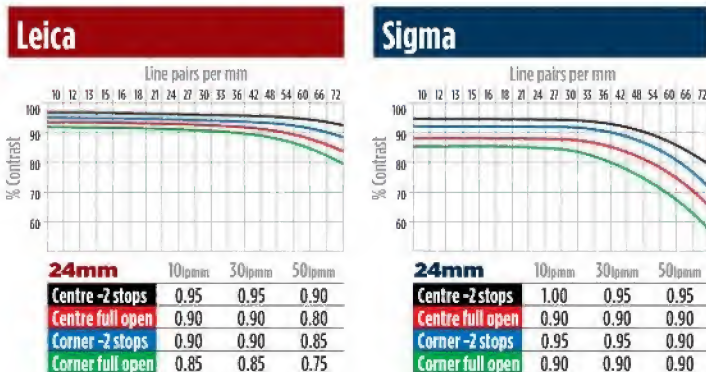
From a technique point of view, the situation has changed since the introduction 25 years ago of automatic focusing. The rangefinder method is very accurate and remains so





# Sharpness/definition

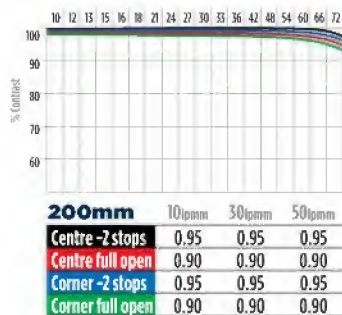
The Sigma optic gives a decent performance, especially when stopped down, but the Leica lens represents a new standard in wideangle, wide-aperture lens design, and gives excellent performance, as the graph below shows. Even wide open at f/1.4 definition is high, and the lines on the graph fall impressively close to the results from our hypothetical 'perfect lens' (see 'Understanding the graphs').



## Understanding the graphs

The graphs shown here demonstrate the ability of the lenses on test to resolve detail. As the lines move to the right along the horizontal axis, the detail the lens is asked to record becomes finer, thus the lens becomes less successful at recording it accurately.

Each sloping line on the graph represents measurements taken from a particular area of the image – the centre and the corner – with both measurements being made for images taken using the widest aperture as well as with the aperture closed by two stops. The grid places a numerical value on the success of the lens in recording these details



at three line-pair-per-millimetre points: 10lpmm, 30lpmm and 50lpmm. The graph on the left demonstrates what we would expect from a near perfect lens. As the lines are all very close together, the performance of the lens is almost as good at the edge of

the frame as it is in the middle – where lenses are at their best. The lines stay close to the top of the graph, as the lens is able to clearly resolve very fine detail. All lenses have a limit to what they can resolve, and this is shown where the lines of the graph begin to slope downwards. In this example the lens only starts to struggle at the 72lpmm point.



These images show vignetting on film. Vignetting is very severe when the lens is used 'wide open' at f/1.4, but by f/11 it has significantly reduced



Leica 24mm f/1.4

The limited depth of field at f/1.4 means that it is possible to isolate scene elements effectively. This image was shot at dusk using the digital M8.2

with any lens focal length and, in adverse conditions and surroundings, also as the photographer's eye tires. Accuracy of manual SLR focusing on the screen, even with microprism and crossed wedge aids, is more dependent on the focal length of the lens in use and the photographer's eye freshness. Autofocusing altered the rules of the game and with multi-zone systems is arguably at least as good as the

coupled rangefinder – and with long lenses it is better. Yet devotees of the rangefinder camera find its absence no barrier, sensing that the act of focusing is part of the creative chain.

So the subjects of this review, both 24mm in focal length, stand at an awkward point both for coupled rangefinder and SLR systems. The former focuses accurately but may need the supplementary viewfinder for framing, so switching attention

## Leica

### 24mm f/1.4 Summilux-M

The Leica 24mm f/1.4 Summilux-M has a semi-matt black barrel with operational markings picked out clearly in white, apart from the feet distance scale which is in orange. The square typeface used for the aperture – indexed in 1/2 stops – and distance scales makes it easy to read. The screw-in rectangular lens hood retains the supplied non-threaded IR/UV filter used for digital imaging. A filter holder that screws into the lens front rim instead of the hood can be obtained. This allows standard 72mm screw-in filters to be attached, although this prevents use of the lens hood. An indication of Leica precision is that the rectangular hood screws home to align perfectly horizontally and vertically with the image frame.

Obviously a manual focus lens cannot be directly compared with an autofocus type ergonomically or, usually, in speed. In one respect it could be difficult to handle. This arises because the focusing ring is just behind the aperture setting ring and is of a smaller diameter. Also the rings are, naturally, well back towards the camera body. On a

number of occasions I found myself either moving the wrong one or both. No doubt with more use this would be avoided. It is a smaller lens than the Sigma 24mm f/1.8, at 76mm length and 61mm diameter. Only 15g greater at 500g, the smaller size gives greater weight/volume density making it feel the heavier of the two.

### Optically

The optical construction uses ten elements in eight groups, two of which are cemented doublets. One is the rear group whose front surface is aspheric. Unusually, the doublet's second component, which is bi-concave, presents a concave surface towards the image plane, either film or sensor. Five of the elements are in anomalous dispersion glass. This type of optical medium gives restricted colour dispersion in a particular spectrum band. Colour dispersion – which brings different colours to focus at different distances from the image plane – is the prime source of chromatic (colour) aberration. By combining anomalous dispersion glasses of various characteristics,





Leica 24mm f/1.4

At f/1.4 this lens is beautifully sharp, although depth of field is tiny, which makes precise focusing on non-static subjects very challenging

between it and the camera finder eyepiece. The SLR gives the full field of view of the lens, but both auto and manual focus are difficult owing to the small size in the finder of even quite large subject features, resulting in focus on the background.

### Digital needs

The arrival of a digital recording version of the Leica M series coupled rangefinder cameras has put the M

lenses in a new context. The format is not the approximately 15.8x23.6mm that is familiar from DSLRs, which use APS-C-size sensors, but a unique 18x27mm size with a format diagonal of approximately 32.4mm. This approximates closely to the old half-frame format on film of 18x24mm. The equivalent viewing angle factor compared to full frame, as stated by Leica, is 1.33x. So the 24mm lens remains a

a high level of colour correction is possible. To reduce the normal increase in spherical aberration as the focused distance becomes closer in, there is a 'floating' group as in the Sigma lens, of elements seven and eight, near the rear of the lens. However, the minimum focus is 70cm, compared to the 18cm of the f/1.8 Sigma lens. The wider f/1.4 aperture brings greater problems of spherical aberration and the floating group is used to reduce that, rather than to extend the focus range closer in.

### Performance

Tests were made on film using the Leica M7 and, digitally, using the M8.2. First impressions were of high definition and high resolution centrally at full aperture with a minimal contrast fall-off to the full-frame corners caused by vignetting. It gives the best results in resolution and definition at full aperture of any 24mm lens AP has tested to date. Its resolution is best exploited on film, where micro-fine detail can be resolved. The lower detail separation capability of the M8's 10.5-million-pixel resolution could confuse detail at the higher spatial frequencies. A wide-aperture, wideangle lens is a practical proposition only if it delivers at full aperture and this one does. Colour hue separation and subtlety are fine with good saturation on film and in

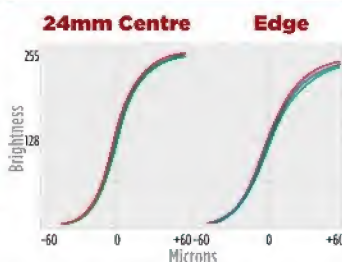
digital. Lateral colour aberration – a source of fringing in digital imaging – is well corrected. Neutrality (unbiased rendering of greyscale) is excellent on both media and more accurate than the Sigma lens. Neutrality is important in giving an image a sense of stability and a fixed visual reference against which colours stand out. In terms of optimum cross-frame image quality, f/2.8 gives the maximum.

On the downside, vignetting is noticeable in film and digital images, requiring f/2.8 to reduce to practical unimportance. Further stopping down has little effect. Light fall-off goes with the territory of wide-aperture, wideangle lenses and the degree shown by this 24mm was not out of line. Curvilinear distortion is another inherent error in this lens type. The values of barrel distortion found should be satisfactory for all but the most critical applications. The suggestion often comes up that curvilinear distortion is reduced when a full-frame lens is used on a smaller format digital camera, since it uses only the centre of the image field. In fact, the percentage error remains the same irrespective of the image dimensions, unless the curvature is not uniform across the field, which rarely occurs. Overall, this is a superb state-of-the-art monofocal lens, which sets a new benchmark for its focal length and aperture.

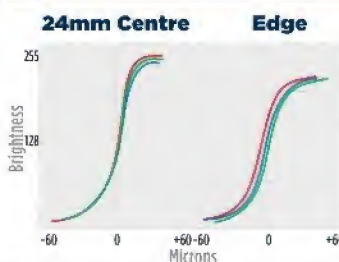
## Chromatic aberration

From the graphs, it is clear that the Leica lens gives very good chromatic aberration performance. Although the Sigma 24mm f/1.8 gives excellent performance in the centre of its imaging circle, the Leica optic is more consistent and shows lower chromatic aberration overall.

### Leica



### Sigma



## Understanding the graphs

Lateral chromatic aberration induces colour fringing and loss of sharpness, so edges are rimmed with colour and are soft. These graphs show the degree of error when the ISO 12,233 slanted knife-edge test is performed at the key focal length settings. Measurements are taken from the centre of the image and from the edge, where lens performance dips.

The greater the divergence of the red, green and blue lines, the greater the error and the more likely the lens is to exhibit the effects of chromatic aberration.

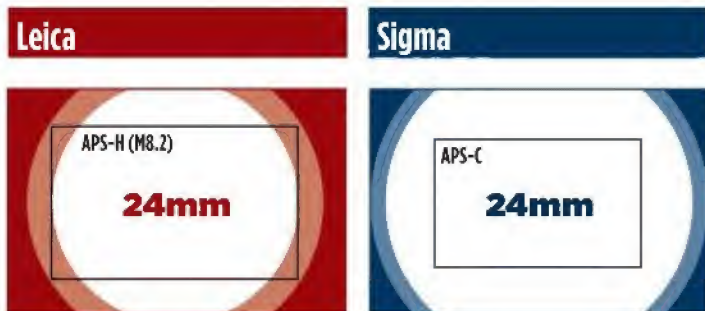
Some divergence in the lines is to be expected, especially at the shorter focal length settings of zoom lenses and at the edge of the image frame. It is the overall appearance that is important rather than the detail of the curves. The graphs below show typical good and bad results.



Vignetting and barrel distortion are obvious when the lens is used at its maximum aperture of f/1.8, but the frame is evenly illuminated by f/11



# Vignetting



On full-frame cameras (film M-series rangefinders, in the case of Leica) both optics show severe vignetting at full aperture. On an APS-C-format DSLR, the Sigma lens shows almost none, but the APS-H-format Leica M8.2 sees noticeable corner shading at f/1.4

These diagrams indicate the vignetting characteristics of each lens at full aperture. They show the degree of difference in the illumination between the centre of the image frame and the corners of the frame. Measured in EV, figures larger than 1/3EV will be clearly visible. Deviations of 1/3EV and below will not show. The darkest areas indicate shading of about 1/2EV and the lighter areas 1/3EV, but in reality the effect is graduated.

|       | Leica |       | Sigma |
|-------|-------|-------|-------|
|       | 24mm  |       | 24mm  |
| f/1.4 | 1     | f/1.8 | 2/3   |
| f/2   | >1/2  | f/2.8 | 1/3   |
| f/2.8 | 1/3   | f/4   | -     |
| f/4   | -     |       |       |

Both optics show noticeable corner shading 'wide open', but the Leica lens is worse in this respect, with 1EV

difference between the centre and corner illumination at f/1.4. By f/4 both lenses are effectively free from the effect.

## Curvilinear distortion

These figures illustrate the degree of 'bend' in a straight line that was recorded 4mm from the top edge of the frame, with '-' indicating barrel distortion and '+' indicating pincushion distortion.

|      | Leica  |  | Sigma  |
|------|--------|--|--------|
|      | 24mm   |  | 24mm   |
| 7.5m | -0.48% |  | -0.22% |
| 25m  | -0.46% |  | -0.17% |
| ∞    | -0.46% |  | -0.12% |

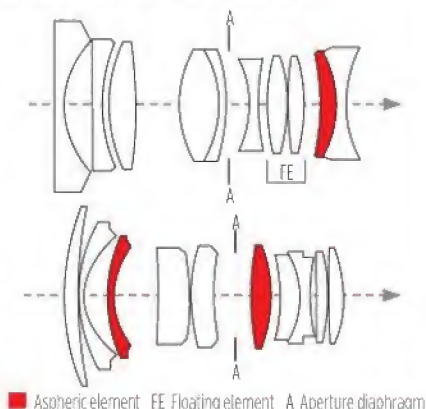
The Leica optic shows significant barrel distortion, which stays almost constant throughout its focus range.

The Sigma lens shows very low levels of barrel distortion, and almost none at infinity focus.

## Lens construction

**Leica** Although based on a fairly conventional double-Gauss design, this lens does have some innovative features. The floating element and plano-concave front and rear elements are unusual.

**Sigma** The Sigma 24mm f/1.8 is a traditional retro-focus double-Gauss design, which is improved by the use of two aspherical elements towards the front and rear of the lens.



■ Aspheric element FE Floating element A Aperture diaphragm



Sigma 24mm f/2

This night scene was shot at f/2, which allowed the use of a relatively low ISO sensitivity setting of 400 and the camera to be handheld

wideangle lens when used on the M8.2, in fact having the viewing angle equivalence of an approximately 32mm focal length lens on full frame.

The 24mm Sigma lens is also designed for full-frame digital or 135 film format use. An APS-C-size sensor has a diagonal of approximately 27mm, so when used on this format, the lens gives an approximate 36mm equivalence. In terms of area, the Leica M format gives about 30% extra over APS-C size. The reason for the unique size is the avoidance of vignetting. As additional protection, Leica uses increasingly ellipsoidal

microlenses towards the frame edges on the M8's sensor photosites. These are normally circular. The effect is to compensate for the fall-off in illumination on these photosites caused by incident oblique rays.

Leica also has its own solution to a photo sensor's sensitivity to infrared (IR) and ultraviolet (UV) light, which all sensors in digital cameras have. The normal solution is to front it with an IR blocking filter. Leica affirms that this can affect the image quality adversely. Instead, a special front-of-lens thin filter is provided. The thinness of the filter reduces any effect on the performance of the lens.

## Sigma

### 24mm f/1.8 EX DG Macro

The DG suffix indicates that the lens is for full-frame film or digital camera use. The EX shows it comes in Sigma's top build and finish series. 'Macro' intimates it focuses closer than might be expected: in fact, 18cm, giving a 1:2.7 repro scale. The livery is matt black with gold trimmings. The operational markings appear strongly and legibly against Sigma's own jet black. Since this is not a zoom lens, the main section of the barrel is taken up by the broad focusing ring, which does not rotate during the internal autofocus movement. The distance scale turns under a protective window. A petal-type lens hood is supplied and the screw-in filter fitting is in the often found 77mm size. The length is 83.5mm and the diameter 82.5mm. Together with its 485g weight, it forms a reasonable bulk for a retrofocus SLR lens at this focal

length. There were no operational problems in handling.

### Optically

Tests were made on film using the Canon EOS 5 and digitally using the EOS 5D. The optical construction comprises ten elements in nine groups so, except for a cemented doublet at the rear, it is air-spaced. The refractive index of air is a factor in the computation of a lens of this type. Two elements have aspheric surfaces, and there are two thick elements just before the diaphragm. Sigma states that the aspherics reduce vignetting, curvilinear distortion and spherical aberration. The latter is especially important as the lens focuses down to 18cm, as the increase in spherical aberration can be a limiting factor in how close a lens can focus without too much image quality loss. In this





At f/1.8, this lens isn't at its best, but careful post-capture sharpening makes a huge difference to the definition of in-focus areas

Sigma 24mm f/1.8

instance its reduction when close to is assisted by using a 'floating' group, which shifts with changes in focus distance to compensate. The 25mm diameter rear glass leaves the emergent rays falling obliquely towards the margins of a full-frame digital camera. Used on the APS-C format with approximately 27mm frame diagonal, this is not a factor.

## Performance

This Sigma monofocal has an attractive f/1.8 maximum aperture, about  $\frac{2}{3}$  stop slower than the much more expensive Leica f/1.4, and about  $\frac{1}{3}$  stop faster than an f/2. It is available in Canon, Nikon, Pentax, Sigma, Sony, Minolta and Four Thirds SLR fittings. The Canon version was used on the EOS 5D. An f/1.8 aperture used to be regarded as a promotional rather than a photographic advantage over f/2. However, the days are gone – hopefully – when having a wide aperture lens was a prestige point. Tests indicate this to be a medium high-contrast lens with good central definition at f/1.8, just

mildly improving at f/2. Corners fall off markedly and f/5.6–8 is needed fully to optimise the frame coverage. APS-C-format users will be satisfied at f/4. Distortion is low, with slight barrel, which is hardly a problem except perhaps when near the closest focus distance. Once again, the superiority of the monofocal over the zoom lens in low distortion is evident. Vignetting is quite noticeable at full aperture, with a modest improvement in the full-frame corners when shading aperture in to f/2. On the APS-C format vignetting is no problem. Lateral chromatic aberration is well corrected at the centre, but some (expected) divergence of the RGB records occurs towards the full-frame edges. Minor colour fringing is apparent on occasions. At 41dB over 35dB background, AF noise is high and the infinity to closest focus drive time of 1,124 milliseconds is quite slow. This is a fine lens at an affordable price, competitive with others in its cost bracket, and giving an upgrade in performance to zoom lenses used at this focal length setting.

## Data file

|                       | Leica  | Sigma  |
|-----------------------|--|--|
|                       | Leica Camera Limited, Davy Avenue Knowlhill, Milton Keynes MK5 8LB. Tel: 01908 256400 Website: <a href="http://uk.leica-camera.com">http://uk.leica-camera.com</a> | Sigma Imaging UK, 13 Little Mundells, Welwyn Garden City, Hertfordshire AL7 1EW. Tel: 01707 329999 Website: <a href="http://www.sigma-imaging-uk.com">www.sigma-imaging-uk.com</a> |
| RRP                   | £4,245   | £499.99  |
| Lens mount            | Leica M (including M8 and M8.2)  | Canon, Four Thirds, Nikon, Pentax, Sigma, Sony   |
| Max aperture          | f/1.4  | f/1.8  |
| Angle of view         | 84°  | 84.1°  |
| Near focus            | 0.7m   | 0.18m  |
| Diaphragm blades      | Ten  | Nine   |
| Filter size           | N/A (Leica Series VIII filters required)   | 82mm   |
| Weight                | 500g   | 485g   |
| Measured focal length | 24.3mm   | 24.2mm   |
| Dimensions            | 58.5x61mm (without hood)   | 83.6x82.5mm  |

## Our verdict

**D**EALING purely in optical terms, the performance of the Leica lens at full f/1.4 aperture equals the Sigma lens at f/4 in cross full-frame coverage. The  $\frac{2}{3}$ -stop greater maximum aperture at the 24mm wideangle focal length has inevitably brought higher vignetting and somewhat increased barrel distortion, although the latter is not at an unsatisfactory level. Leica believes the vignetting level, though admittedly high, is not of great significance for the type of subject that will be tackled at full aperture – and its colour and greyscale tonal rendering is outstanding. However, the Sigma lens gives a fully professional performance with high build quality, and is able to satisfy critical demands. Also, its autofocus makes it convenient to use for many more applications. The reason for the Leica's higher 'specification' score below, by the way, is that we have not docked points for its lack of AF and close-focusing ability, both of which are inevitable and therefore acceptable limitations of the rangefinder system for which it is designed.

So how do you equate the Sigma lens at approximately £400 with a Leica lens that costs around £4,000? That the performance of the latter is superior, there is no question, but is it nearly £3,600 superior? Strictly, the cost should not enter into a technical matter, but in practice it does. From the Leica point of view, the bottom line is that research and development costs need to be recovered. At this level of optics, production has to be by hand assembly. Expensive optical media are used to an accuracy of configuration, which can result in a costly reject rate. The mount engineering must be of a calibre to maintain alignment and centring from arctic to equatorial conditions over many decades. Yet the number sold each year may be only a few hundred.

That does not mean the Sigma 24mm f/1.8 is not of a very high quality of optical and mount engineering, because it patently is. However, it serves a less demanding, though still critical market. And it is saleable in large volumes to owners of all the digital and film SLR brands, allowing a much lower margin on unit sales. Photography needs both: a benchmark to show what can be achieved regardless of cost, and a practical tool of high quality that gives near the best available performance at an affordable price.

### Leica 24mm f/1.4 Summilux-M

|               |            |       |
|---------------|------------|-------|
| Specification | ●●●●●●●●●● | 27/30 |
| Build         | ●●●●●●●●●● | 19/20 |
| Handling      | ●●●●●●●●●● | 17/20 |
| Performance   | ●●●●●●●●●● | 28/30 |

91%

### Sigma 24mm f/1.8 EX DG Macro

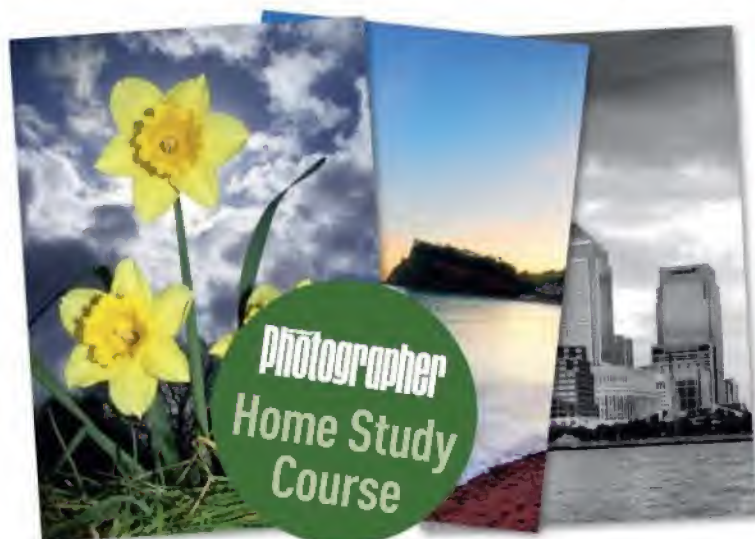
|               |            |       |
|---------------|------------|-------|
| Specification | ●●●●●●●●●● | 27/30 |
| Build         | ●●●●●●●●●● | 17/20 |
| Handling      | ●●●●●●●●●● | 18/20 |
| Performance   | ●●●●●●●●●● | 27/30 |

89%



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# Nikon Coolpix P90

**Nikon's 12-million-pixel P90** offers a huge zoom range, optical stabilisation and full manual exposure. **Barney Britton** tries it out



**B**EFORE digital SLRs became affordable for enthusiast photographers, bridge cameras offered similar levels of control but for less money. Many people thought that with DSLRs becoming more and more popular, and less and less expensive, the days of the bridge camera were numbered. However, it appears that there's life in the concept yet, and after a hiatus of several years Nikon has started to produce them once again. First came the Coolpix P80, which was released last year (tested in AP 21 June 2008), and the Coolpix P90 replaces it. The P90 offers manual exposure control, a flip-out 3in LCD screen and a whopping 26–624mm (equivalent) lens for less than £500. What could possibly go wrong?

## Build and handling

The Nikon Coolpix P90 is built to a price, and as such, it doesn't give quite the same feeling of solid rigidity as Nikon's DSLRs. That said, despite its lightweight construction there is no 'give' in any of the body seams, and a decent rubber hand and thumb grip ensure a firm hold on the camera in use. The layout is fairly standard for a camera of this type, and almost identical to the P80. An exposure mode dial on the top-plate serves to select the desired shooting mode, and key shooting functions are accessed via a cluster of buttons on the rear of the camera to the right of the LCD screen.

The screen is the main interface for altering the P90's settings, and the menu system is standard Nikon – clear and logical, and very similar to that used in the D60 and the recently announced D5000 DSLRs. Although the P90's screen is slightly larger than that of the D5000, it is not fully articulated, but is of the fold-out type, allowing the screen to be angled up and down but not out to either side. This adds some depth to the camera's body, but the overall impression is still of a light, well-balanced camera.

Like all bridge cameras, the Nikon P90 lacks an optical viewfinder and instead uses an electronic viewfinder (EVF) with dioptre correction. It isn't the worst EVF I've ever used, but neither is it particularly good. Contrast is rather too high, detail resolution limited, and like many such devices the refresh rate is slightly too slow for seamless panning. Furthermore, with the lens zoomed in to its telephoto limit and Vibration Reduction turned on, the image in the P90's EVF displays the same queasy 'snaking' motion from side to side that I bemoaned in my test of the P80 last year. For telephoto work, at least, the main 3in LCD screen is a much better option for composing images.

## Performance

To start with the positive points, the Nikon Coolpix P90's AF system is very good, and matches the best of the other bridge cameras I have used. Face detection works quickly, and

well, and it is very rare that the P90 misses its mark. I prefer to work with the AF set to the central point, but for normal use the area AF mode is perfectly capable. The P90's exposure system is, likewise, very reliable, and apart from the occasional burnt-out highlight in skies and bright sunlit scenes I have no complaints. Should the P90 not get the exposure right, exposure compensation is easily set using a dedicated button on the rear of the camera. Unlike some bridge cameras, the P90's manual exposure options are genuinely useful, too, and control is possible over aperture and shutter speed in  $\frac{1}{5}$ -stop increments.

Unfortunately, though, it isn't all good news, and despite the efficient AF and metering systems, the P90 displays many of the same unpleasant traits as the P80. These are noisy images at ISO 400 and above, poor edge performance at the wideangle setting of the built-in lens, high levels of distortion (admittedly mitigated by in-camera distortion correction) and low sharpness coupled with severe fringing towards the telephoto end of the zoom.

## Verdict

I like the idea of the Nikon Coolpix P90, because everyone likes the idea of a massive zoom lens in a compact, inexpensive camera with manual exposure control. This is because it is a likeable idea. Unfortunately, in

## At a glance

- 12-million-pixel CCD sensor
- 24x optical zoom, 26–624mm (equivalent)
- Flip-out 3in LCD screen
- ISO 64–6400 (ISO 6400 at 3MP)
- Street price £359.99



the same way as its predecessor, the P90 cannot deliver on its enthusiast-friendly credentials, and poor image quality, especially towards the telephoto end of the zoom, lets this camera down. It is impossible to deny the appeal of a 26–624mm lens, but the compromises involved in fitting such an optic into such a small, relatively inexpensive package severely limit the camera's usefulness. Image quality is acceptable if you're happy with very small print sizes, but at the risk of repeating what I wrote in my test of the P80 last year, if a 6x4in print is all that you need to make you don't need a 12-million-pixel camera to make it. **AP**



## Data file

**Nikon UK Ltd**, 380 Richmond Road, Kingston, Surrey, KT2 5PR Tel: 0871 200 964. Website: [www.nikon.co.uk](http://www.nikon.co.uk)

|                          |   |
|--------------------------|---|
| <b>RRP</b>               | £379.99   |
| <b>Sensor</b>            | 12.1 million effective pixels                                     |
| <b>Output size</b>       | 4000x3000 pixels  |
| <b>Lens</b>              | 26–624mm [equivalent]<br>f/2.8–5                                  |
| <b>ISO</b>               | ISO 64–1600 (plus 3200, 6400 at 3MP resolution)                   |
| <b>Exposure modes</b>    | Auto, plus 'U1' and 'U2' custom modes, video and 15 scene presets |
| <b>Exposure metering</b> | Matrix, centreweighted, spot, AF linked spot                      |
| <b>White balance</b>     | Auto, 5 presets, plus preset manual                               |
| <b>LCD</b>               | 3in LCD with 230,000 dots   |
| <b>AF modes</b>          | Auto AF, centre AF, manual (roaming) AF, face priority, MF        |
| <b>Memory card</b>       | Secure Digital/MMC  |
| <b>Power</b>             | Rechargeable Lithium-Ion  |
| <b>Weight</b>            | 460g  |
| <b>Dimensions</b>        | 114x83x99mm   |

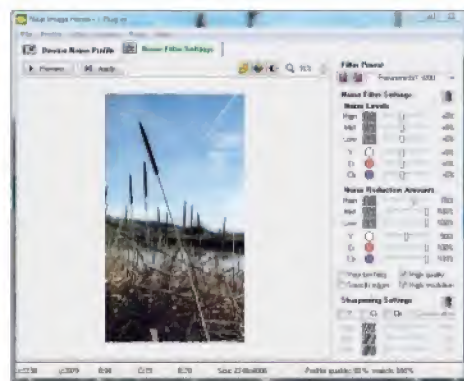
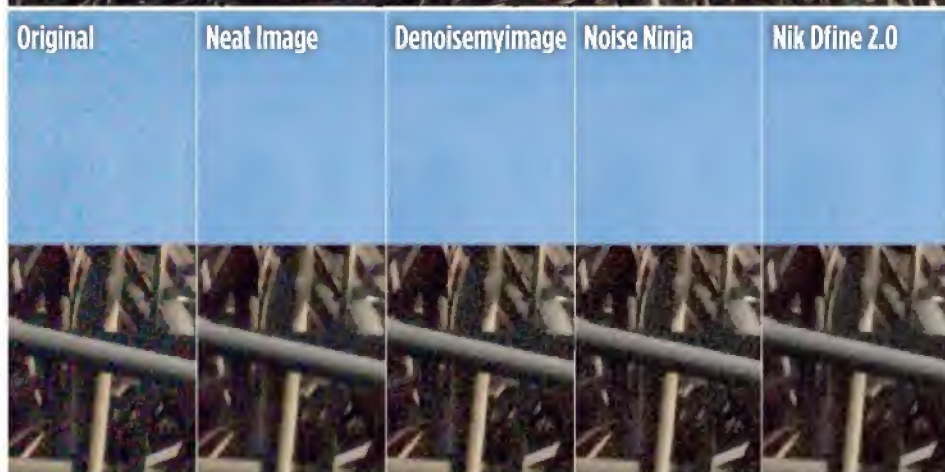
A 624mm lens can get you very close to the action, as these images, taken from the same position, show





# Noise-reduction software

It's often better to leave noise reduction until the post-capture stage. **Angela Nicholson** tests four of the best software packages that let you do just that



## Neat Image

**N**EAT Image can be bought as a stand-alone package or as a Photoshop-compatible plug-in, and user-generated camera-noise profiles can be downloaded from the Neat Image website. If your camera isn't listed, a test target is available for printing and shooting. Alternatively, it is possible to profile a camera using a normal photographic image. The results from the software's automatic noise analyser can be fine-tuned using sliders that indicate the amount of noise at a particular brightness range, but any adjustments are based on guesswork.

Clicking on the Noise Filter Settings tab reveals the noise-reduction controls. In the Standard mode, the amount of the image that is considered noise and the level of noise reduction for both the chroma and luminance components can be adjusted. The Advanced mode (accessed via the Tools menu) allows the user to target noise with a specific frequency or channel location. Reducing the high-frequency noise has a positive impact upon fine texture and speckling, while the low-frequency adjustments deal with the splodges of colour that can give images a bruised look.

Although there is plenty of control and functionality, with batch processing being supported, the only way to apply the filter selectively is to work on different layers in Photoshop.

### Summary

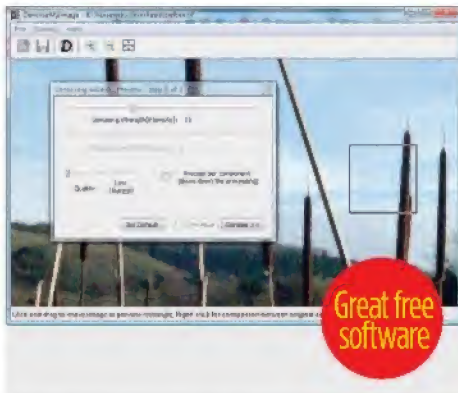
Plenty of control is provided, but the interface lacks the slickness of Nik Dfine 2.0 (see right). Selective noise reduction can only really be applied within Photoshop. Processing can run in the background while another image is worked on.

### System requirements

Neat Image plug-in can be used with Adobe Photoshop 5-CS4, Adobe Photoshop Elements 2-7, Corel/Jasc Paint Shop Pro 7-X2, Corel Photo-Paint 12-X4, Ulead PhotoImpact 8-X3, PhotoLine32, Microsoft Digital Image Suite 2006, Microsoft Digital Image Pro, Serif PhotoPlus, Apple Aperture (Mac only) **Windows** XP or newer, Pentium 4-class machine or higher, 512MB RAM or higher, True color display, resolution 1800x600 pixels or more **Mac** PowerPC G3 processor or better, Mac OSX or newer, 160MB RAM or higher, True color display with 800x600-pixel resolution or higher

[www.neatimage.com](http://www.neatimage.com) €24.90-€62.90 (around £21-£54). Four versions, including standalone and Photoshop plug-in





## Denoise myimage

**A**LTHOUGH it is available as a free download, Denoisemyimage provides a reasonable level of control and works as a standalone software package.

Chroma and luminance noise are reduced separately using two slider controls. There is no measurement or profiling stage with Denoisemyimage, but I found the chroma noise-reduction system does a good job of removing bright-coloured speckling. The luminance noise-reduction control, as usual, demands finding a compromise between detail clarity and smoothing.

A small preview pane on the image displays the effect at the same size as the image is displayed. A magnify tool is provided, so the noise and detail can be examined closely.

The final stage of the process allows the noise reduction to be applied selectively to different brightness ranges within the image. This is done by manipulating any one of 16 sliding controls to dictate how much of the adjusted image will be shown over the original noisy file. It is possible to achieve a relatively smooth sky while retaining some detail in darker areas. Alternatively, two versions can be made of the same image, which can then be combined into a single file using Photoshop or a similar software package.

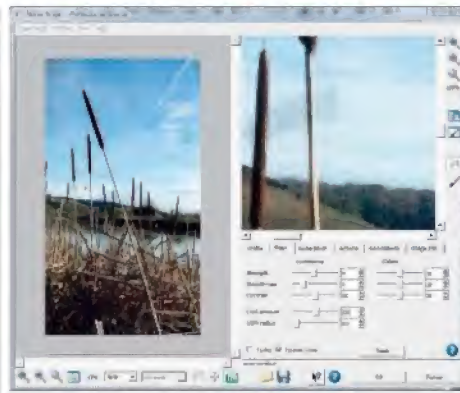
### Summary

The free version of Denoisemyimage is effective and very easy to use, but if you want batch processing you will have to invest in the Standard or Pro versions. Results are more consistent when combining two denoised images using Photoshop (or similar), rather than the blending option.

#### System requirements

**Windows** XP, Vista, W7, 32 or 64 bits, 1GB RAM or more for larger images

[www.adptools.com/denoisemyimage/eng/index.html](http://www.adptools.com/denoisemyimage/eng/index.html)  
Free download, Standard €9.99 (around £9), Pro €14.99 (around £13)



## PictureCode Noise Ninja

**P**ICTURECODE provides a JPEG file that can be printed and photographed or scanned to produce a profile target, or Noise Ninja can assess a photographic image to create the noise profile. The Manual Profiling tool can be used to remove individual selections or add new ones for the image profiler to work on. A series of coloured bars indicates the current noise profile, giving an approximate measure of the total noise and the relative amount of noise associated with different colours and tones. A saved profile can also be loaded and there are profiles available for many cameras from [www.picturecode.com](http://www.picturecode.com).

Once the noise has been profiled, clicking on the Filters tab reveals the noise-reduction controls. Luminance noise reduction has the greatest impact upon image detail, so it's best to start by setting the luminance smoothness figure to its highest level (20) and then move it back gradually until the best compromise between detail and noise is found. Then do the same with the luminance strength control and the colour noise-reduction controls.

Noise Ninja's Noise Brush screen allows the user to make localised selections where chroma/luminance noise reduction should be applied. However, the brush can only be used on a preview screen that shows the image at 100% or more, so making large selections is rather laborious.

### Summary

Noise Ninja has a clear interface that is easy to use. The Noise Brush tool makes it easy to paint over image details where chroma noise reduction is required. Noise Ninja can also be applied as an action in Photoshop for batch processing.

**System requirements** 32MB RAM (256MB recommended), 50MB of unused hard disk space for a 5MP image – more for larger images, High-color or True-color video card with 800x600-pixel resolution, 1028x768-pixel or higher resolution recommended **Windows** 98 SE, 2000, ME, XP or Vista, Pentium-compatible processor **Mac** OS X 10.2.8 or higher, G3, G4, G5 or Intel processor **Linux** x86, Pentium-compatible processor

[www.picturecode.com](http://www.picturecode.com) \$34.95-\$79.95 (around £21-£48). Four versions, including standalone and Photoshop plug-in. A CD costs \$10 (around £6).



## Nik Dfine 2.0

**N**IK Dfine 2.0 is a Photoshop plug-in that is compatible with a range of software. In Photoshop it is accessed via the Filters menu. As with all the packages except Denoisemyimage, there are two main stages in the noise-reduction process: Measure, which enables the software to characterise or profile the noise in the image; and Reduce, which allows you to decide how much reduction to apply.

Users can save a noise profile for their own camera and sensitivity-setting combination, which can be recalled easily at a later date, or they can be downloaded from the Nik website. As usual, areas of even tone and little detail make the best targets for analysis and profiling.

The beauty of Dfine is that the noise reduction can be applied easily at different levels across the image, so areas of even tone can be made smooth while detail is retained in more complex areas. Selections may be made and the variable noise reduction applied using Nik's U Point Control Point or Color Range technology. It's simply a case of clicking on the relevant part of the image and adjusting the luminance and chroma noise-reduction settings. It's also possible to use the Photoshop Brush tool to selectively apply or remove the noise filter.

### Summary

Dfine 2.0 has a clear interface, is very easy to use and produces excellent results. Conveniently, it can be applied as a smart filter within Photoshop CS3 and CS4 so the settings can be revisited even after the image has been saved. The noise reduction can also be applied using Photoshop Batch processing, Actions or Droplet.

**System requirements** Adobe Photoshop 7-CS4, Adobe Photoshop Elements 2-7, Adobe Photoshop Lightroom 2.3 or later, Apple Aperture 2.1 or later and Adobe Photoshop plug-in-compatible applications **Windows** Windows XP with Service Pack 3, Windows Vista, Pentium III 1GHz or better, 1GB RAM **Mac** OS 10.4 and 10.5 or later, G4, G5, Intel Core Solo, Intel Core Duo, Intel Core 2 Duo, Intel Xeon, 1GB RAM **Linux** Pentium-compatible processor

[www.niksoftware.com](http://www.niksoftware.com) €118.94 (around £100) download or boxed CD (including postage)



# Getting the most out of high ISO

Sometimes it isn't possible to shoot with a low ISO setting and a tripod, so **Barney Britton** shows how to get the most out of your high ISO images

**I**n last week's issue I explained what noise is, where it comes from and how your digital camera is designed to reduce its impact on your photographs. This week I'm looking at what you can do to improve the quality of your high ISO images after you've taken them, including two different types of noise reduction, image stacking and even adding noise for creative effect.

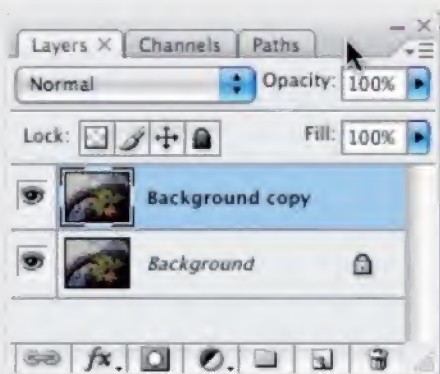
## Chroma noise reduction

Technique  
one



In AP 22 August, I explained how in-camera, high ISO noise reduction can reduce detail in your JPEG images. In-camera noise reduction isn't the only option available to you, though, and if you use Photoshop or a similar image-manipulation program, you can reduce the appearance of high ISO noise in JPEG files yourself. Many image-manipulation programs have their own noise-reduction functions, but these simple methods will work with any software that offers support for layers and blending modes. For maximum detail in the final image, you should shoot with your camera's high ISO noise reduction set to its lowest level, or turned off completely.

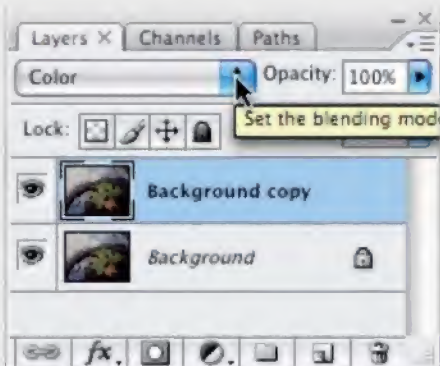
**1** With your image open, go to the Layers window, and duplicate the layer (Layer>Duplicate Layer).



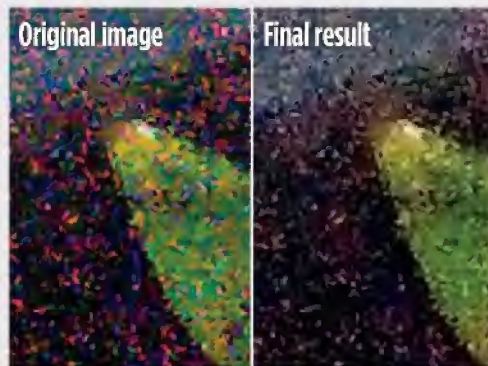
**2** With the duplicated layer selected, apply a Blur filter. A basic Gaussian blur of around five pixels (Filter>Blur>Gaussian Blur) will do, but you can get good results by experimenting with Median or Smart Blur filters if your program offers them. The aim is to smooth the image, but not add so much blur that essential details are obliterated. If your program offers a 'smart filter' function, you can go back and fine-tune the effect on the smart filter layer.



**3** In the Layers palette, change the blending mode to Color. You should see that your image suddenly contains a lot less chroma noise than it did originally, but detail should be retained.



**4** If you're happy with the effect, you can flatten the image (Layer>Flatten Image) and save it. However, you might like to go back at this stage and experiment with different blur amounts and methods.





# Luminance noise reduction

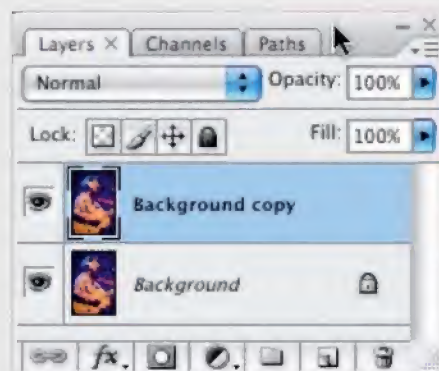
You should approach luminance noise reduction in JPEG files with caution, because whatever method you use, there is a risk of losing some detail. This method isn't intended to give completely

smooth images, but it does reduce the 'grittiness' of luminance noise with only a small loss in detail resolution. It is an ideal second step after reducing chroma noise using the method in 'Technique one'.

## Technique two

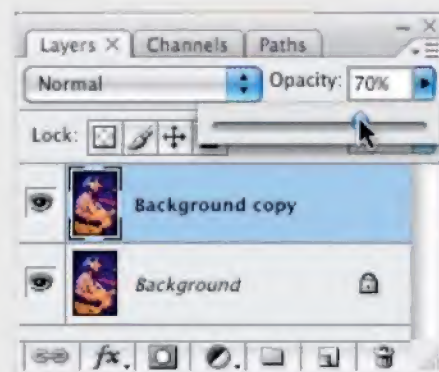


**1** Open your image, and duplicate it in the same way as you did when reducing chroma noise in 'Technique one'.

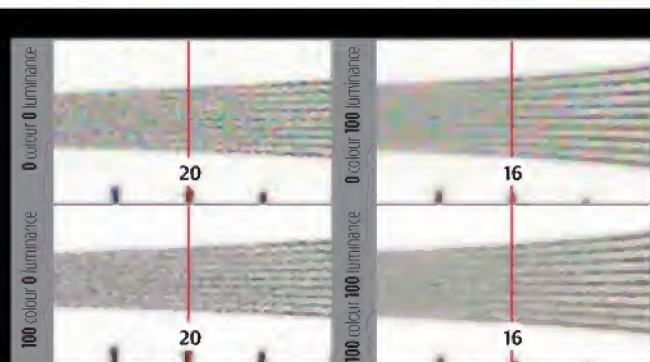


**2** Working on the duplicated image, select Filter>Blur>Surface Blur. Using the two sliders, adjust the image until you've smoothed it to your satisfaction, but don't go too far otherwise the image will appear 'posterised'. A Radius of 30 and Threshold of 20 is a good starting point.

**3** In the Layers palette, reduce the Opacity of the blurred layer until you are happy with the effect. An Opacity of 70% is a good starting point. Make sure you can still see some fine detail through the blur layer, but don't worry if some detail still looks rather soft at this stage.



**4** After flattening the image (Layer>Flatten image) we need to sharpen it slightly to get back some of the high-contrast detail that was softened in the previous step. Using Unsharp Mask, try the following settings: Amount 150%, Radius one pixel, Threshold 20. Every image is different, though, so feel free to experiment with these three parameters for the best results.



## Shoot raw

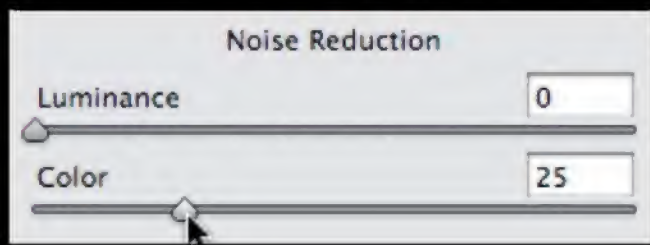
Shooting in raw mode allows you the maximum control over your images, and it is easier, as well as more effective, to reduce noise from raw files in a dedicated conversion program, than to reduce it in JPEGs.

Most raw-conversion programs offer dual-mode noise reduction to tackle chroma and luminance noise separately. Adobe's CameraRaw plug-in is a good example. The chroma noise slider is designed to get rid of the random speckles

of false colour in high ISO images, while the luminance slider is designed to reduce the 'grittiness' of the image.

The chroma slider is set to 25 by default, and for most raw files it doesn't need to be set any higher. As you can see from the diagram above, the chroma noise reduction slider has little effect on resolution in this ISO 6400 file. The effect of the luminance noise reduction control, however, is more severe, and as you can see, it softens fine detail. This isn't a problem if you only need to make small prints, but it can limit the size of an enlargement.

**Amateur Photographer Top tip**





# Stacking a sequence of images

Technique  
three

If you have the choice, general practice is to use a low ISO setting and a long exposure when shooting in low light, but there are occasions when this might not be possible.

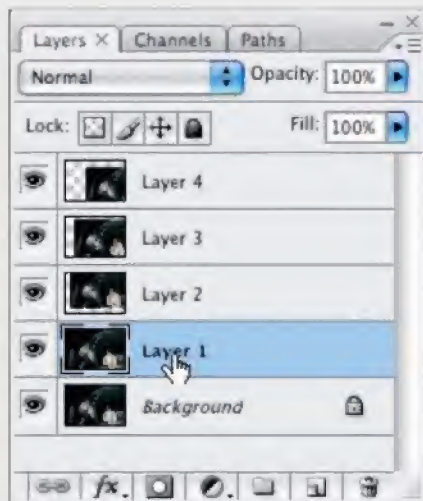
Here I'll show you how to overlay multiple shots of the same scene to minimise high ISO noise. Done carefully, it can be extremely effective, and the reason it works

is that high ISO noise is random, so it appears in different patterns from image to image. This means that if you stack several images on top of one another the fixed scene elements are constantly present in every picture, but the random noise pixels are in different patterns and are 'cancelled out' when the images are overlaid.



**1** Take your pictures at the required exposure settings, and with high ISO noise reduction turned off, for maximum detail capture. Ideally, you should make sure that white balance is set to a fixed value. If possible, use a tripod to ensure that your camera doesn't move, but if your camera allows you to shoot at a fairly high frame rate you may be able to get away with handholding through a quick burst of shots. Three shots is the minimum, and five is a sensible maximum. Any more than that and your computer will probably struggle in step 2.

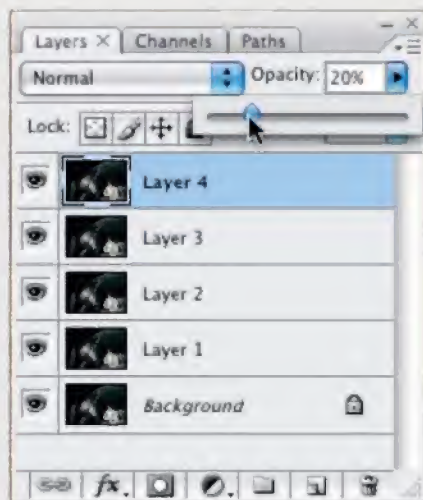
**2** Stack the images. With all your shots open in your image-manipulation software, select one (it doesn't matter which) and using the Move tool, drag the other images onto it one by one. Each image will appear as a new layer over the original. The order of the images doesn't matter, but the alignment does.



**3** Alignment. If you shot your sequence of images using a tripod, they should be aligned perfectly, but if you handheld the sequence, as I've done here, you may need to shift them around a bit to get them properly lined up. In Photoshop, you can do this with the Move tool and the transform options (Edit>Transform). Be patient – correct alignment can take a while, but it is crucial to ensure a sharp final image. To align each layer, set its Opacity to 50% temporarily so that the previous layer shows through it, and turn off the visibility of the layers above.



**4** By default, in Photoshop the top layer in a stack is the only one that you can see. To allow the other layers in a stack to 'show through' we need to adjust their opacities. In order for each layer to have an equal intensity in the stack, the bottom image (the background) is left as it is, with layer 1 at an Opacity of 50%, layer 2 at 33%, layer 3 at 25%, and so on. In other words, the bottom image in a stack should have an opacity equal to its proportion of the total number of images. The fifth image in the stack, therefore, should have an Opacity of 1/5 of the total, which is 20%.



**5** Once the stack is correctly aligned, and the Opacity of the layers has been adjusted, you should see a dramatic decrease in the amount of noise in the final image. If you're happy with the result, you can flatten the image (Layer>Flatten image) to combine all the layers, and then perform your usual adjustments, such as sharpening, levels and so on.





# Making a feature of noise

In last week's articles on noise, and in the other techniques in this piece, we looked at noise in terms of a problem that needs to be corrected. However, there are times when noise can create impact and add atmosphere to a scene, and even come to the rescue of an otherwise unremarkable image.

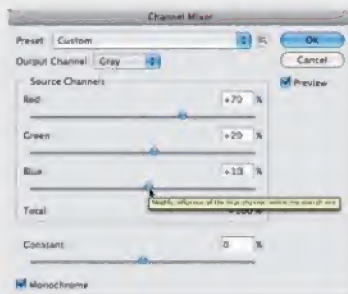
Here, I shot with available light, using the highest ISO setting that the camera could offer. The AWB system has delivered a pretty poor, yellowish image, and there is chroma noise present in the shadows, with sharpness not what it could be. I think it could look really good in black & white, though, with a bit of simulated film grain.



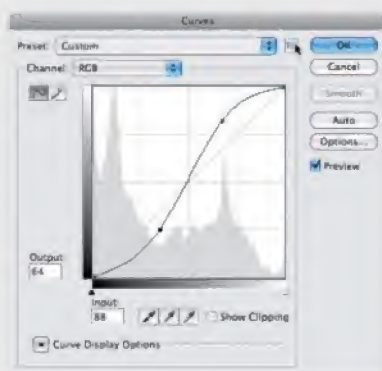
Original image

Technique  
four

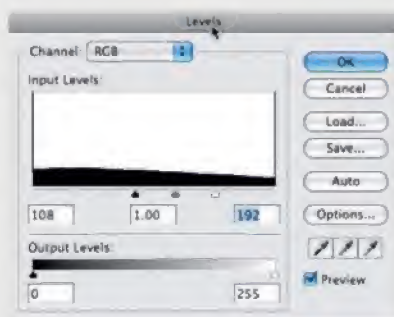
**1** With the image open in Photoshop, I converted it to b&w using the Channel Mixer (Image>Adjustments>Channel Mixer). Most image-manipulation programs have a similar function, sometimes simply called 'b&w'. To get the shot I wanted, I ticked the Monochrome box and entered values of Red +70, Green +20 and Blue +10 for a fairly 'flat' conversion.



**2** To add contrast I've applied a simple 'S' curve adjustment (Image>Adjustments>Curves). This has darkened the shadows and lightened the highlights. The noise in the original image immediately looks more attractive in monochrome, and I could actually save my image at this point. However, I want to give it the high-contrast film treatment.



**4** I want to increase the contrast of the Noise Layer, but decrease its rather artificial-looking sharpness. With the duplicated, noisy layer selected, I've made a very harsh Levels adjustment (Image>Adjustments>Levels) to greatly increase its contrast. Now, selecting Filter>Blur>Gaussian Blur, I've blurred it slightly by setting a Radius of one pixel.



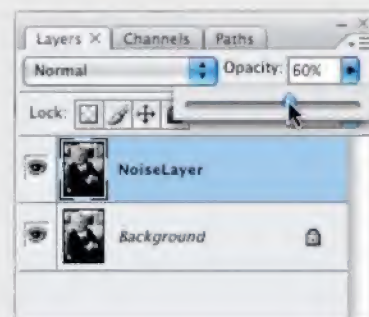
Final result



**3** I want to add some really coarse film-like grain, but I want to add it to a new layer, to avoid losing the detail in the image. You can do this by selecting Layer>Duplicate Layer (I've called my layer 'Noise Layer') then adding grain to this layer via Filter>Noise>Add Noise, making sure that the Monochrome checkbox is ticked. Don't be afraid to add a lot of noise here – I've gone for an Amount of 30%. The image on screen looks pretty horrible as a result, but we'll correct that in step 4.



**5** In the Layers palette, I've altered the Noise Layer's Opacity to balance the two layers. I've settled on 60%, and I find that setting the blending mode to Overlay gives me a nice result, reminiscent of Kodak Tri-X film. Play around with the layer opacity and blending modes, though, as you may find that setting the blending mode to Soft Light or Hard Light gives you good results too. When you're happy, flatten the image and save it.









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# Q&A

## Affordable storage solution

**Philip Morgan asks** I save all my images on my computer's hard drive, but I am interested in a more cost-effective and practical way to store my photographs. I know I can use CDs, but I am aware that other photographers use second hard drives or storage devices. I don't want to spend hundreds of pounds, so can you recommend a suitable device?



**Richard Sibley replies** I always recommend saving images on an external hard drive. This frees up valuable space on your computer, which in turn can help make it run faster. It also allows you access to your images should your computer fail. External drives operate in the same way as the computer's internal hard disk, and you can connect your computer to the external drive via a USB.

I suggest you buy two identical external hard drives, and make sure that you save all your images to one and then make regular back-ups to the other. Hard drives do fail, and should this happen having an identical back-up will mean you won't lose all your valuable images.

Storage space on external hard disk drives is increasing all the time, and the cost per GB is getting smaller. A basic 500GB hard drive could cost you as little as £70. I recommend a disk such as the Toshiba 500GB external drive (pictured left) that we tested in AP 16 May, which retails for around £80.

An alternative is to use DVDs rather than an external disk drive on which to save your images. However, if you use an image catalogue system or library, such as that found in Adobe Photoshop Elements or Photoshop Lightroom, you will not be able to access the images so easily as you will need the correct DVD inserted. For this reason I would recommend this route for straight archival, rather than working copies of your images.

www.amateurphotographer.co.uk  
More questions & answers available at...

## Shooting in the air

**Ronald Walford writes** In reply to reader Johan Walt's question about shooting from a helicopter (AP 25 July), I think you should have mentioned that there are legal obstacles to aerial photography for amateurs from private aircraft. The helicopter in question might have a shooting licence, but you should have advised all readers to check before setting off on such an expedition.

**Richard Sibley says** On the basis that the ride was to be a birthday gift for Johan, my answer was based on the presumption that it was a tourist flight in a helicopter.

To take images from an aircraft, the pilot must hold a commercial pilot's licence. A private pilot's licence does not allow the flight to be used for any purpose other than pleasure or travel (and that includes photography), and the pilot may not receive payment for the flight.

A tourist company offering flights will, of course, make sure that all their pilots hold a commercial pilot's licence, and as such photography is allowed.

As for restrictions on photography, as far as I am aware you are perfectly entitled to take photographs from the air in the same way as you would from a public place on the ground. However, you are not permitted to fly over some locations, such as certain landmarks, government buildings and military installations, so you would obviously not be able to take any images in these circumstances.



## Deteriorating door seal

**Anthony Stewart asks** I have been given a Canon Canonet 28 rangefinder camera, but the film door's foam light seal has deteriorated. Where can I buy a replacement seal? Also, what glue should I use to seal the replacement foam to the camera?

**Richard Sibley replies** Try Camera Repair Materials at [www.cam-spares.com](http://www.cam-spares.com), which stocks a variety of different self-adhesive light-sealing foams. Once you have selected and bought foam of the correct thickness, simply

## Do you have a photographic question that you would like answered?

Be it about modern technology, vintage equipment, photographic science or help with technique – here at AP we have the team that can help you.

Simply send your questions to: [apanswers@ipcmedia.com](mailto:apanswers@ipcmedia.com) or by post to: AP Answers, Amateur Photographer Magazine, IPC Media, Blue Fin Building, 110 Southwark Street, London SE1 0SU.

## FAQ

Frequently Asked Question

Buying a new camera or lens can be an exciting – and expensive – decision, but what should you do if your shiny new kit goes wrong? Under the Sale and Supply of Goods Act, once you buy an item you have made a legal contract with the retailer who sold you the goods, so if your camera goes wrong you should contact the retailer.

To satisfy the Sale of Goods Act the product must be as described (either in its advertising or verbally by sales staff), of



## FROM THE AP FORUM

Join our online community, and be informed and entertained

Your questions answered



### Camera, bike, action

**Simon\_md asks** I often go out on my mountain bike through local woods and would like to take my camera with me. However, I am not sure how good an idea this would be because I do a lot of off-road cycling and the camera would get shaken up quite a lot.

Does anyone know how much of an effect this is likely to have on my camera? I have a Canon EOS 1000D with 18-55mm and 70-300mm lenses, and carry them in a Lowepro SlingShot 100 AW bag.

**chr1s replies** Your kit will be fine. I ride a mountain bike, and regularly take a camera out with me, though usually I take my Canon PowerShot G10 because of its size. The bike's suspension, tyres and your body will absorb most of the vibration, and so long as your camera is held securely in a bag it will be fine.

**daft\_bike replies** I agree, although my camera is covered for accidental damage under my house insurance for peace of mind.

**Hotblack replies** Take your camera in a backpack, although fixing the bag to the handlebars or the frame probably isn't a good idea.

**PhilW replies** I often take my Canon EOS 5D with me to the big trail centres of Coed-y-Brenin and the Dalby Forest. Make sure your camera is in a suitable bag. I've crashed many times with mine and the camera is still OK.

remove the old foam (a removing solution is available for £2.75 incl postage) and cut the new foam to size and apply.

### Chemistry lesson

**David White asks** Where can I buy the necessary chemicals to make my own sepia toner and other photographic chemicals?

**Richard Sibley replies** Silverprint stocks a range of raw chemicals for developing and toning prints. For more information or to buy, visit [www.silverprint.co.uk](http://www.silverprint.co.uk).



Remember to read any safety advice before mixing chemicals

satisfactory quality and fit for purpose. The downside is that it is up to the consumer to prove that the item doesn't meet these conditions. If it has stopped working, through no fault of the consumer, within six months from the date of purchase, the law deems that the fault must have been there when the item was bought.

Under these circumstances you are entitled to a repair or a replacement, depending on the item in question. You are only entitled to a full refund if the item is returned within a reasonable period of time. The 'reasonable period of time' is not set out by law, but is dependent on the item in question and the circumstances.

After six months it is assumed that the consumer has accepted the goods, but you

still have rights. You have up to six years to make a claim, but the onus is on the consumer to prove that the problem or fault existed at the time the contract was made.

Most new goods also come with a manufacturer's warranty, which is typically for one year. It is important to fill out the warranty cards that come with the goods and, where necessary, get the retailer to stamp the warranty card before registering the product with its manufacturer.

Some retailers will happily return the goods to the manufacturer on your behalf, but if not you may have to pay for the postage or collection of the faulty item.

For more advice visit [www.consumerdirect.gov.uk](http://www.consumerdirect.gov.uk) or your Citizens Advice or Trading Standards office. **Richard Sibley**

# Next week

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## NIKON D3000

How does Nikon's latest entry-level DSLR fare against the competition? **Richard Sibley** puts it to the test



## Performance art

**Barney Britton** explains how to get the access and learn the skills required for great concert pictures in low light



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We look at the short but remarkable career of Julia Margaret Cameron and show you how you can 'get the Cameron look'







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## ICONIC CAMERAS

**Ivor Matanle** traces the history of a 1950s medium-format camera that stayed at the top of the professional market for almost 50 years

# Hasselblad 500C

**O**f all the cameras launched and used during the second half of the 20th century, only a few have an undeniable right to be regarded as an icon – a camera that helped shape photography for a generation. One must undoubtedly be the Leica M3, another the Nikon F, about which I shall be writing soon. Yet for me, as someone who has spent his entire working life associated with advertising, PR, newspapers and professional photography, the Hasselblad 500C stands out as the camera without which my life, and many of my former colleagues' lives, would not have been the same. To quote the great singer Tina Turner, whose energy belies her years, it is simply the best.

The 500C was not the first professional Hasselblad camera. The Hasselblad 1600F of 1948 and the 1000F of 1953/54 had focal plane shutters, lenses with pre-set diaphragms and basic flash synchronisation at 1/25sec and longer. The 1000F had become

outclassed for studio work by the top-of-the-range Rolleiflex twin-lens reflexes, which had, from 1953/54, been available with the Carl Zeiss 80mm f/2.8 Planar lens that was superior to the Tessar on the 1000F, and with the Synchro Compur shutter, providing flash synchronisation at all speeds to 1/500sec. Hasselblad had to equal or exceed Rolleiflex

performance to achieve a lead in the studio market.

Appearing in 1957, the Hasselblad 500C was an original. Superficially, it looked very similar to the 1000F, but had dramatically improved shutter and lens capability. A 6x6cm rollfilm camera with interchangeable viewfinders and film backs, plus a range of some of the best interchangeable lenses in the world from Carl Zeiss and each with its own reflex Synchro Compur shutter, the 500C had one of the first fully automatic diaphragm mechanisms and shutter cocking coupled to

**First and second-type Hasselblad 500C cameras: on the left, the original camera with motordrive location holes in the front panel and six-element 80mm f/2.8 Planar; and on the right a 1967 500C with seven-element 80mm f/2.8 Planar**

the winding of the camera. With interchangeable film magazines, which were a huge advantage in fast-moving studio work, plus the f/2.8 Planar and flash synchronisation at all speeds, the Hasselblad 500C and its derivative models were to be at the top of the professional market for almost half a century.

### Clever stuff

So much about the 500C was new. The camera body had its own auxiliary shutter at the focal plane to prevent light getting to the film during focusing. When the shutter button was pressed, in the space of 1/10sec, the Synchro Compur – which had been open for focusing – closed, the lens diaphragm closed to the preset taking aperture, the mirror swung up under



**A Hasselblad 500C and 500mm f/8 Tele-Tessar C, with its lens hood. A 45° prism viewfinder is beside the camera**





the focusing screen, the auxiliary shutter at the back of the body opened, and the Synchro Compur opened and closed to give the set exposure time. When the finger was removed from the shutter button, the auxiliary shutter closed again. Winding the camera brought the mirror down, opened the shutter and diaphragm to full aperture for focusing the next shot, and moved the film on by one frame. The wheezing noise of a Hasselblad 500-series camera being fired has been likened to that of a duchess sneezing in church – muffled, refined and calculated to cause as little offence as possible.

The initial version of the 500C, manufactured from 1957 until the middle of 1959 and with modifications until 1962, included provision for a planned accessory electric motordrive that never happened. Although these early bodies have some mechanical differences from later 500C cameras, there were few external differences. The main distinguishing features of pre-1961 500C cameras are two pin-location holes in the front panel of the camera, at 10 o'clock and 8 o'clock to the lens throat, which would have located the planned accessory motor unit, attached using the tripod bush. Early bodies also have a pin within the lens mount area that protrudes at about the 3.30 position and engages in a hole at the back of C lens mounts. Cameras with this pin, which was missing from about 1962 onwards, cannot use the later CF lenses as they do not have the hole into which the pin fits.

In 1970, the 500C was replaced by the 500C/M. This was essentially similar to the 500C, but with interchangeable focusing screens, and continued in production until 1994.

## The Super Wides

Because retrofocus lens design was only just beginning in the 1950s, and extreme wideangle lenses as we know them did not exist, there was no way of providing a rollfilm single-lens reflex with anything more than a moderately wideangle lens. Hasselblad first overcame this problem by creating the Super Wide, a 38mm non-interchangeable Biogon lens attached to a slim non-reflex camera that took standard F film backs. This was marketed alongside the 1000F and was the first Hasselblad with a Compur shutter. In 1958/59, the original Super Wide, whose shutter cocking was not linked to the knob film wind, was replaced by the Super Wide C, with lever wind that cocked the shutter, a silver-finish instead of black lens and the shutter button on the top of the



**A typical professional 500C outfit of the 1960s (l-r): 50mm f/4 Distagon; 250mm f/5.6 Sonnar; 150mm f/4 Sonnar; 500C with 80mm f/2.8 Planar; a spirit level; a 24-exposure 220 magazine; a 12-exposure 120 magazine**

camera instead of on the front. In 1969, the SWC's lens became black and in 1973 the 38mm Biogon was multi-coated to become a T\* lens.

## Motordrive

The Hasselblad 500EL, which was launched in 1965, was not just a 500C with a motordrive unit

permanently mounted underneath. It was an entirely new design, with an even more robust mechanism and a unique rechargeable 6V nickel-cadmium cell to power the motor. The motordrive battery needed to be fully discharged, then fully charged from 'flat' to 're-form' it every so often, although busy professionals

rarely bothered to do this. Battery failure was common, and the 500EL was stigmatised as being unreliable. In 1970, the new 500EL/M with interchangeable screens still had the NiCd battery. Fifteen years later the design was updated to include built-in TTL flash metering and became the 500ELX, but it wasn't until 1989 that Hasselblad accepted the inevitable and changed the power source to take five AA batteries, in what then became the 553ELX. About 6,000 Hasselblad EL bodies were made, followed by as many as 34,000 EL/M bodies in the next 15 years.

## The lenses

In 1957, there were four lenses available in C mount: the all-new six-element 80mm f/2.8 Planar C; a 60mm f/5.6 Distagon C; a 150mm f/4 Sonnar C; and a 250mm f/5.6 Sonnar C. The first six-element f/2.8 Planar was replaced in 1960/61 by an improved seven-element design. The 500mm f/8 Tele-Tessar C was added to the range in 1961, followed by an improved 60mm lens, the 60mm f/4 Distagon C, in 1963. A year later the celebrated 50mm f/4 Distagon C made its appearance. In 1966, the 120mm f/5.6 S-Planar for close-range photography on the Hasselblad bellows was introduced, at the same time as the 40mm



**A typical pro outfit of the mid-1970s that was predominantly black. Back row (l-r): 40mm f/4 T\* Distagon; 250mm f/5.6 T\* Sonnar; 135mm f/5.6 S-Planar on a Hasselblad bellows unit. Front row (l-r): Hasselblad 500C/M with 80mm f/2.8 Planar; 150mm f/4 T\* Sonnar; 50mm f/4 T\* Distagon**

## 1957 Hasselblad 500C announced

Harold Macmillan becomes Prime Minister. First edition of *The Sky at Night* on BBC TV. Laika, the dog aboard Sputnik 2, becomes first animal in space.

## 1959 Hasselblad SWC announced

Singapore gains independence from the UK. First *Australopithecus* skull discovered by Leakeys. First known human HIV death.

## 1962 Second version of Hasselblad 500C appears

James Hanratty hanged for A6 murder. Algeria gains independence from France. Premiere of *Dr No*, first James Bond film.



# Amateur Photographer ICONS OF PHOTOGRAPHY

f/4 Distagon C. The 100mm f/3.5 C Planar was announced (in black finish only) in 1968. This range then carried Hasselblad into the 1970s, with the 35mm f/3.5 F-Distagon C added to the line-up in 1972. From about 1973 until 1982, this range of lenses was made in black finish, with T\* multi-coating progressively available from 1973/74. The 350mm f/5.6 Tele-Tessar C appeared in 1973 and the 140-280mm f/5.6 Variogon C (a Schneider lens) in 1977.

## What do you have to pay?

Prices have fallen in the recent recession, but by a smaller percentage than those of lesser cameras. Recent sales on eBay have seen complete 500C cameras with 80mm lens, waist-level finder and a 12-exposure back selling for between £300 and £450. Chrome 250mm and 250mm lenses seem to sell for £150-£200, and 50mm lenses from about £225.



The Hasselblad SWC with 38mm f/4.5 Biogon was the ultimate wideangle rollfilm camera, not even surpassed by the 40mm f/4 Distagon



Alpa camera cradle, hoods and their boxes, Alpa microscope adapter, extension tube adapter and a range of Alpa filters

## Accessories and film backs

**T**HE first Hasselblad magazines, made between 1948 and 1954 with serial numbers below 19480, are officially called 'Film Magazine 12', although everybody called them 'F magazines' in the 1960s, simply because they will not operate with any camera after the 1000F. The C12 magazine was made between 1955 and 1968, with numbers from CC 20000 to TR 132999. When loading these and earlier magazines, the number 1 on the backing paper has to be aligned in the window that is revealed by opening a door in the centre of the rear face of the magazine, then a flick backwards on the film wind key sets the number 1 on the exposure counter. Magazines for 16 exposures 6x4.5cm horizontal and 16 exposures 41mm square ('Superslide') were available from the early 1960s until 1970. The 24-exposure C24 back for 220 film was made between 1967 and 1970, and there was also the Magazine 70, launched in 1966, which took 70mm perforated film in special cassettes.

In 1968, the A12 magazine appeared, with a crank rather than a key to wind the film through when loading and no door in the back of the magazine. Similar A16 6x4.5cm magazines appeared in 1970, as did the A24 for 220 and the A16S for Superslide. In 1985, a new version of the A12 appeared with a different film insert, and in 1991, when the 205TCC was launched, the A12TCC magazine appeared. This has electrical contacts that transmit to the camera the ASA/ISO rating of the film loaded, set on an ASA dial on the left-hand side of the magazine.

Inevitably, Hasselblad supplied a very full range of other accessories, including a wind knob with an exposure meter in it, various grips, sports viewfinders, prism finders, close-up bellows and a vast range of specialised accessories for laboratory and scientific work, plus a huge range of filters, lens hoods and more common accessories. Everything Hasselblad was expensive – but everything Hasselblad was the best you could buy.

## If you're buying

**Watch out for...**  
**Signs of minor damage**  
Ask anyone mailing one to you to use a large box and to pack the camera carefully.

**Shutter problems**  
The Synchro Compur shutters in Hasselblad lenses are usually reliable, but check all speeds and the iris. Ed Trzoska (Tel: 0116 267 4247) will quote for repairs.

**Difficulty inserting or removing the dark slide**  
This usually indicates damaged light traps in the film back.

**Fungus or haze in the lens**  
Look for white thread-like clusters between the lens elements or haziness between the elements. This can be expensive to sort out.



## You may also like...

A Bronica SQ, from about 1980, with broadly similar specifications and performance.

## Join the PCCGB

The Photographic Collectors' Club of Great Britain holds regional meetings, runs a quarterly postal auction and publishes magazines full of classic camera information. Visit [www.pccgb.com](http://www.pccgb.com) or call 01920 821 611 (but not to ask for valuations on cameras).

Thanks to members of the PCCGB for the loan of the cameras illustrated in this article. Visit my blog at [www.classic-camera.net/page/editors-view.aspx](http://www.classic-camera.net/page/editors-view.aspx).

### 1965 Hasselblad 500EL appears

Death of Sir Winston Churchill. First American combat troops in Vietnam. Alexei Leonov becomes first man to walk in space.

### 1970 Hasselblad 500C/M announced

Paul McCartney announces disbanding of The Beatles. Edward Heath becomes Prime Minister. President Nasser of Egypt dies.

### 1973 Hasselblad C lenses all made in black

George Foreman defeats Joe Frazier for world heavyweight championship. Last US soldier leaves Vietnam. Watergate scandal in USA.



# Dealer and Classified Guide

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 55-200/4.5-5.6 DC £109  
 70-200/2.8 EX DG APO DG £659  
 70-300/4.5-6.3 APO DG Macro £179  
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\*Saving on 450D + 17-85 IS + 70-300 Lens

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| Canon LENSES |                       |                            |                     |                            |                      |                                |                     |  |  |
|--------------|-----------------------|----------------------------|---------------------|----------------------------|----------------------|--------------------------------|---------------------|--|--|
|              | EF 17mm f/4 L         | EF 14mm f/2.8 II USM       | £1878.99 or £77 mth | EF 100mm f/2.8 USM         | £439.99 or £18 mth   | EF 24-105mm f/4 L IS USM       | £943.99 or £39 mth  |  |  |
|              | EF 15mm f/2.8 Fisheye | EF 135mm f/2.0 USM         | £393.99 or £25 mth  | EF 135mm f/2.0 USM         | £918.99 or £38 mth   | EF 28-90mm f/4-5.6 III         | £113.99 or £10 mth  |  |  |
|              | EF 17mm f/4 L         | EF 135mm f/2.8 Soft Focus  | £2149.99 or £88 mth | EF 135mm f/2.8 Soft Focus  | £348.99 or £15 mth   | EF 28-105mm f/3.5-5.6 USM II   | £237.89 or £10 mth  |  |  |
|              | EF 20mm f/2.8 USM     | EF 180mm f/3.5 L USM       | £406.99 or £17 mth  | EF 180mm f/3.5 L USM       | £1268.99 or £52 mth  | EF 28-135mm f/3.5-5.6 IS USM   | £373.99 or £16 mth  |  |  |
|              | EF 24mm f/2.8         | EF 200mm f/2.0 L IS USM    | £368.99 or £15 mth  | EF 200mm f/2.0 L IS USM    | £4853.99 or £197 mth | EF 28-200mm f/3.5-5.6 USM      | £319.99 or £13 mth  |  |  |
|              | EF 24mm f/2.8 IS      | EF 200mm f/2.8 L USM mk II | £1093.99 or £45 mth | EF 200mm f/2.8 L USM mk II | £643.99 or £27 mth   | EF 28-300mm f/3.5-5.6 L IS USM | £1219.99 or £87 mth |  |  |
|              | EF 24mm f/2.8 IS II   | EF 300mm f/2.8 L IS USM    | £1899.99 or £77 mth | EF 300mm f/2.8 L IS USM    | £3787.99 or £154 mth | EF 55-250mm IS                 | £221.99 or £9 mth   |  |  |
|              | EF 24mm f/1.4 L II    | EF 300mm f/4.0 L IS USM    | £1399.99 or £57 mth | EF 300mm f/4.0 L IS USM    | £1178.99 or £48 mth  | EF 70-200mm f/2.8 L II USM     | £1044.99 or £43 mth |  |  |
|              | EF 28mm f/1.8 USM     | EF 400mm f/2.8 L IS USM    | £386.99 or £16 mth  | EF 400mm f/2.8 L IS USM    | £6469.99 or £262 mth | EF 70-200mm f/2.8 IS USM       | £1549.99 or £63 mth |  |  |
|              | EF 28mm f/2.8         | EF 400mm f/4.0 DO IS USM   | £1163.99 or £48 mth | EF 400mm f/4.0 DO IS USM   | £4333.99 or £221 mth | EF 70-200mm f/4.0 L USM        | £548.99 or £23 mth  |  |  |

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**MR14 EX** **£449**

**580 EX II** **£749**

**220 EX** **£139**

**430 EX II Speedlite** **£219**

**580 EX II Speedlite** **£379**

**MR14 EX Macrofill** **£449**

**MT-24 EX Macrofill** **£749**

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A large ultra-bright 3.7" TFT screen with 160° viewing angle for image/video review

| Canon DIGITAL SLR ACCESSORIES |         |         |        |        |          |        |         |         |        |
|-------------------------------|---------|---------|--------|--------|----------|--------|---------|---------|--------|
|                               | BG-E5   | LP-E5   | HL-E5  | LC-E5E | CBC-E5   | ACK-E5 | RS-40E3 | RC-5    | RC-1   |
|                               | £119.00 | £44.49  | £29.35 | £44.03 | £89.00   | £59.00 | £24.49  | £20.99  | £21.49 |
|                               | £169    | £19.99  | £10.07 | £8.31  | £7.99    | £22.99 | £39.99  | £36.89  |        |
|                               | BG-E2N  | OSKE3   | BP511  | CB-SL  | CA-PS400 | CA-S70 | ACK-E2  | RS-80N3 | TC80N3 |
|                               | £149.49 | £179.99 | £89.49 | £44.03 | £105     | £42.99 | £58.71  | £44.49  | £129   |
|                               | £322.96 | £169    | £19.99 | £6.49  | £9.99    | £8.49  | £599    | £29.99  |        |
|                               | BG-E6   | LP-E6   | HL-E6  | LC-E6E | CBC-E6   | ACK-E6 | RS-40E3 | RC-5    | RC-1   |
|                               | £119.00 | £44.49  | £29.35 | £44.03 | £89.00   | £59.00 | £24.49  | £20.99  | £21.49 |
|                               | £169    | £19.99  | £10.07 | £8.31  | £7.99    | £22.99 | £39.99  | £36.89  |        |
|                               | BG-E2N  | OSKE3   | BP511  | CB-SL  | CA-PS400 | CA-S70 | ACK-E2  | RS-80N3 | TC80N3 |

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## OLYMPUS E-SYSTEM



Olympus E-420

|                                      |                      |
|--------------------------------------|----------------------|
| E-420 BODY ONLY                      | £254.99<br>or £11mth |
| E-420 BODY + 14-42mm lens            | £296.99<br>or £13mth |
| E-420 BODY + 14-42mm + 40-150mm lens | £374.99<br>or £16mth |
| E-420 BODY + 25mm pancake lens       | £378.99<br>or £16mth |

## OLYMPUS E-SYSTEM



Olympus E-520

|                                 |                      |
|---------------------------------|----------------------|
| E-520 BODY ONLY                 | £308.99<br>or £13mth |
| E-520 + 14-42mm lens            | £394<br>or £16mth    |
| E-520 + 14-42mm + 40-150mm lens | £458.99<br>or £19mth |
| E-520 + 14-42mm + 70-300mm lens | £628.99<br>or £26mth |

## OLYMPUS E-SYSTEM



Olympus E-620

|                                 |                        |
|---------------------------------|------------------------|
| E-620 BODY ONLY                 | £498.99<br>WAS £524.99 |
| E-620 + 14-42mm lens            | £587.99<br>WAS £594.99 |
| E-620 + 14-42mm + 40-150mm lens | £674.99<br>WAS £689.99 |
| E-620 + 25mm lens               | £614.99<br>WAS £679    |

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|                       |         |
|-----------------------|---------|
| E-P1 Body Only        | £598.99 |
| E-P1 + 14-42mm        | £674    |
| E-P1 + 17mm           | £744    |
| E-P1 + 17mm + 14-42mm | £849    |



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## SONY A230



Sony Alpha 230

A lightweight and compact 10.2 megapixel DSLR. It has image stabilisation incorporated into the body so it benefits all your other lenses. The 9-point AF system also ensures the sharpest possible images. It even features eye-start focusing to avoid missing those important shots. Other features include a 2.7" LCD screen.

|                                 |                   |
|---------------------------------|-------------------|
| A230 + 18-55mm f3.5-5.6 DT lens | £429<br>or £18mth |
| A230 + 18-55mm + 55-200mm       | £569<br>or £24mth |

## SONY A380



Sony Alpha 380

The Sony Alpha 380 Digital SLR Body is a light, compact and easy-to-use 14.2 megapixel DSLR. It comes with SteadyShot Inside and Quick AF Live View. HD output and a 2.7" tilt LCD Screen.

|                                 |                   |
|---------------------------------|-------------------|
| A380 BODY ONLY                  | £544<br>or £23mth |
| A380 + 18-55mm + 55-200mm       | £729<br>or £30mth |
| A380 + 18-55mm f3.5-5.6 DT lens | £548<br>or £23mth |

## SONY A700



Sony A700

Aimed at serious photo enthusiasts and semi-professionals, the A700 teams uncompromising performance and responsiveness with superlative HD image quality.

|                      |                      |
|----------------------|----------------------|
| A700 BODY ONLY       | £569<br>or £24mth    |
| A700 + 16-105mm lens | £824.99<br>or £34mth |

## SONY A900



Sony A900

A full-frame 24.6 megapixel DSLR with a fast and accurate 9-point AF with 10 focus assist points, 5fps continuous shooting at full resolution and a high resolution 3" Xtra Fine LCD.

|                |                        |
|----------------|------------------------|
| A900 BODY ONLY | £1899.99<br>or £77 mth |
|----------------|------------------------|



The Zeelon Blower is an anti-static, non-contact dust removal device for DSLR cameras. Ordinary blowers are made from rubber which increases static charges. Zeelon is made from Silicon-RX. While renewable microscopic filters, ensuring the air that reaches your sensor is clean.

|                            |        |
|----------------------------|--------|
| VISIBLE DUST Zeelon Blower | £39.99 |
|----------------------------|--------|

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## SAMSUNG



GX20 BODY

|                                |                       |
|--------------------------------|-----------------------|
| GX20 BODY + 18-55mm            | £559.99<br>or £23 mth |
| GX20 + 18-55mm + 50-200mm lens | £596.99<br>or £25 mth |

## PENTAX K20D



K20D BODY ONLY

|                            |                       |
|----------------------------|-----------------------|
| K20D BODY ONLY             | £659.99<br>or £27 mth |
| K20D + 18-55mm II          | £680<br>or £28 mth    |
| K20D + 18-55 II + 50-200mm | £789<br>or £32 mth    |

## PENTAX K-7



K-7 BODY ONLY

|                           |                          |
|---------------------------|--------------------------|
| K-7 BODY ONLY             | £1139.99<br>WAS £1179.99 |
| K-7 + 18-55mm II          | £1189.99<br>WAS £1199.99 |
| K-7 + 18-55 II + 50-200mm | £1269.99<br>WAS £1299.99 |

## Panasonic G1



Panasonic G1

Despite its compact size, the G1 features a large 3.0" 460,000 dot swivelling LCD screen, "Live View" 50fps electronic viewfinder with 1.4x magnification and 14mm eye relief. NB. This is Micro Four Thirds system DSLR.

|                                 |                    |
|---------------------------------|--------------------|
| G1 + 14-45 (Red, Blue or Black) | £479<br>or £20 mth |
|---------------------------------|--------------------|

## Panasonic GH1



DMC-GH1 + 14-140 (Red or Black)

|                                     |                     |
|-------------------------------------|---------------------|
| DMC-GH1 + 14-140                    | £1149<br>or £47 mth |
| DMC-GH1 14-140 + DMW-MS1 Stereo Mic | £1199<br>or £49 mth |
| DMC-GH1+DMW-MS1 +8GB SD+HDMI Cable  | £1249<br>or £51 mth |

## SIGMA LENSES We are a Sigma Pro Lens stockist

|  |          |            |
|--|----------|------------|
| 4.5mm f2.8 EX DG HSM                                     | £718.99  | or £30 mth |
| 8mm f3.5 EX DG FishEye                                   | £718.99  | or £30 mth |
| 10mm f2.8 EX DG HSM                                      | £568.99  | or £24 mth |
| 15mm f2.8 EX DG FishEye                                  | £558.99  | or £23 mth |
| 20mm f1.8 EX DG  | £478.99  | or £20 mth |
| 24mm f1.8 EX DG  | £398.99  | or £17 mth |
| 28mm f1.8 EX DG  | £322.99  | or £14 mth |
| 30mm f1.4 EX DG HSM (62mm)                               | £388.99  | or £16 mth |
| 50mm f2.8 EX DG Macro (Canon Fit)                        | £238.99  | or £10 mth |
| 50mm f1.4 EX DG HSM (Sigma Fit)                          | £358.99  | or £15 mth |
| 70mm f2.8 EX DG Macro                                    | £382.99  | or £16 mth |
| 105mm f2.8 EX DG Macro                                   | £383.99  | or £16 mth |
| 150mm f2.8 EX DG Macro                                   | £564.99  | or £23 mth |
| 180mm f3.5 EX DG Macro                                   | £724.99  | or £30 mth |
| 300mm f2.8 EX DG HSM                                     | £1279.99 | or £59 mth |
| 500mm f4.5 EX DG HSM                                     | £3768.99 | or £154mth |
| 800mm f5.6 APO DX DG HSM                                 | £5248.99 | or £213mth |
| 10-20mm f4.5-6.3 EX DG HSM                               | £248.99  | or £10 mth |
| 12-24mm f4.5-5.6 EX DG                                   | £677.99  | or £28 mth |
| 17-70mm f2.8-4.5 DC                                      | £246.99  | or £10 mth |
| 18-50mm f3.5-5.6 DC (Four Thirds Fit)                    | £73.99   | or £3 mth  |
| 18-50mm f3.5-5.6 DC (Canon/Pentax/Sigma/Minolta or Sony) | £75.99   | or £3 mth  |
| 18-50mm f3.5-5.6 DC (Nikon Fit)                          | £94.99   | or £4 mth  |
| 18-50mm f2.8 EX DG Macro A/B System                      | £318.99  | or £13 mth |
| 18-50mm f2.8 EX DG (Canon Fit 72mm)                      | £318.99  | or £13 mth |
| 18-50mm f2.8 HSM (Nikon Fit)                             | £318.99  | or £13 mth |
| 18-125mm f3.8-5.6 DC OS HSM (Canon Fit)                  | £248.99  | or £10 mth |
| 18-200mm f3.5-6.3 DC                                     | £217.99  | or £12 mth |
| 18-200mm f3.5-6.3 DC OS                                  | £287.99  | or £12 mth |
| 18-250mm f3.5-6.3 DC OS HSM                              | £448.99  | or £19 mth |
| 24-70mm f2.8 EX DG Macro                                 | £427.99  | or £18 mth |
| 28-70mm f2.8 EX DG                                       | £238.99  | or £10 mth |
| 28-300mm f3.5-6.3 DC MACRO                               | £249.99  | or £11 mth |
| 50-150mm APO 2.8 EX DG DC II                             | £563.99  | or £23 mth |
| 50-500mm f4-6.3 EX DG II                                 | £1058.99 | or £43 mth |
| 55-200mm f4-5.6 DC                                       | £99.99   | or £4 mth  |
| 55-200mm f4-5.6 HSM (Nikon Fit)                          | £99.99   | or £4 mth  |

Check our website for DSLR compatibility with SIGMA Lenses.

## SONY LENSES

|                                  |       |            |
|----------------------------------|-------|------------|
| 16mm f2.8 Fisheye                | £547  | or £23 mth |
| 20mm f2.8                        | £427  | or £18 mth |
| 28mm f2.8                        | £177  | or £7 mth  |
| 35mm f1.4G                       | £1049 | or £43 mth |
| 50mm f1.4 AF                     | £282  | or £12 mth |
| 50mm f2.8 AF Macro (D)           | £407  | or £17 mth |
| 85mm f1.4 ZA Planar T*           | £1047 | or £43 mth |
| 100mm f2.8 Macro AF (D)          | £498  | or £21 mth |
| 135mm f2.8 STF                   | £847  | or £35 mth |
| 300mm f2.8G                      | £4248 | or £174mth |
| 500mm f8 Reflex                  | £18   | or £22 mth |
| 11-18mm f4.5-5.6 DT AF (D) Lens  | £467  | or £19 mth |
| 16-80mm f3.5-5.5                 | £548  | or £23 mth |
| 16-80mm f3.5-5.5 ZA VS T* DT     | £547  | or £23 mth |
| 16-105mm f3.5-5.6                | £427  | or £18 mth |
| 18-70mm f3.5-5.6 AF (D) Lens     | £127  | or £5 mth  |
| 18-200mm f3.5-6.3 DT AF (D) Lens | £388  | or £16 mth |
| 18-250mm f3.5-6.3                | £427  | or £18 mth |
| 24-70mm f2.8 ZA                  | £1289 | or £53 mth |
| 55-200mm f4-5.6                  | £177  | or £7 mth  |
| 70-300mm f4.5-5.6 G              | £667  | or £27 mth |
| 75-300mm f4.5-5.6 AF (D) Lens    | £177  | or £7 mth  |

## OLYMPUS LENSES

|                                      |          |            |
|--------------------------------------|----------|------------|
| 8mm f3.5 Fisheye                     | £677.99  | or £28 mth |
| 25mm Pancake Lens                    | £197.99  | or £8 mth  |
| 35mm f3.5 Macro                      | £197.99  | or £8 mth  |
| 50mm f2 Macro ZUIKO ED Digital       | £446.99  | or £19 mth |
| 7-14mm f4 ZUIKO Digital              | £1347    | or £55 mth |
| 11-22mm f2.8-3.5 ZUIKO Digital       | £729     | or £30 mth |
| 12-60mm ED f2.8-4.0 SWD              | £827.99  | or £34 mth |
| 14-42mm ED f3.5-5.6                  | £216.99  | or £9 mth  |
| 14-54mm f2.8-3.5 ZUIKO Digital       | £423.99  | or £18 mth |
| 18-180mm f3.5-4.5                    | £417.99  | or £17 mth |
| 35-100mm f2.0                        | £1894.99 | or £77 mth |
| 50-200mm ED f2.8-3.5 SWD             | £989.99  | or £41 mth |
| 40-150mm Zuiko Digital ED Mk2 f4.5-6 | £237.99  | or £10 mth |
| 70-300mm f4.0-5.6                    | £323.99  | or £14 mth |
| EC-14 Tele Converter x1.4            | £354.99  | or £15 mth |
| EC-20 Tele Converter                 | £378.99  | or £16 mth |
| TCXN-17 Tele Conversion Lens         | £89.99   | or £4 mth  |
| ED-25 Extension Tube 25mm            | £138.99  | or £6 mth  |

## Tokina LENSES

|                                   |         |           |
|-----------------------------------|---------|-----------|
| 35mm f2.8 AT-X PRO DX AF Macro ** | £349    | or £15mth |
| 100mm f2.8 AT-X Macro **          | £399.99 | or £16mth |
| 10-17mm f3.5-4.5 AT-X DX **       | £469.99 | or £20mth |
| 11-16mm f2.8 AT-X PRO DX AF **    | £479.99 | or £20mth |
| 12-24mm f4 AT-X DX Lens **        | £419.99 | or £18mth |
| 12-24mm f4 AT-X AF PRO DX **      | £474.99 | or £20mth |
| 16-50mm f2.8 AT-X DX **           | £589.99 | or £24mth |
| 50-135mm f2.8 AT-X DX **          | £549.99 | or £23mth |
| 80-400mm f4.5-5.6 AT-X **         | £559    | or £23mth |

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|---|----------|------------|
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| 180mm f3.5 AF SP Di                     | £694.99  | or £28 mth |
| 300mm f2.8 AF SP (Canon Fit)            | £2449.99 | or £100mth |
| 10-24mm f3.5-4.5 Di II LD ASP IF        | £379.99  | or £16 mth |
| 17-50mm f2.8 AF XR Di II LD ASP IF      | £328.99  | or £14 mth |
| 18-200mm f3.5-6.3 AF XR Di II           | £157.99  | or £6 mth  |
| 18-250mm Di II                          | £348.99  | or £15 mth |
| 28-75mm f2.8 SP AF Di                   | £348.99  | or £15 mth |
| 28-80mm f3.5-5.6 AF                     | £39.99   | or £2 mth  |
| 28-300mm f3.5-6.3 AF XR Di ASP IF       | £248.99  | or £11 mth |
| 28-300mm AF XR Di                       | £299.99  | or £13 mth |
| 28-300mm AF VC Di                       | £499.99  | or £21 mth |
| 55-200mm f4.5-6.3 AF Di II LD Macro     | £104.99  | or £4 mth  |
| 70-200mm f2.8 SP Di (Canon Fit)         | £459.99  | or £19 mth |
| 70-200mm f2.8 SP Di (Nikon/Sony/Pentax) | £594.99  | or £25 mth |
| 70-300mm f4.5-6.3 AF Di LD Macro 1:2    | £123.99  | or £5 mth  |
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| A2100       | £189    |
| SX110 IS    | £174.99 |
| SX200 IS    | £264    |
| SX10 IS     | £289    |
| SX1 IS      | £399    |
| IXUS 95     | £159    |
| IXUS 100    | £189    |
| IXUS 870 IS | £215    |
| IXUS 110    | £229    |
| IXUS 990 IS | £277    |

**Nikon**

Coolpix Models:

|             |         |
|-------------|---------|
| L19         | £86     |
| L20         | £104    |
| L100        | £219.99 |
| S220        | £119    |
| S620        | £193    |
| S630        | £234    |
| P90 (Black) | £359    |

Coolpix P6000 **£309** or £13mth

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3 cols. available.

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|------|---------|
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| S950 | £94     |
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| W220 | £142    |
| W270 | £194    |
| W300 | £199    |
| T900 | £239    |
| H20  | £222.99 |
| H50  | £239    |
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Cyber-shot DSC-W210 **£129** WAS £199

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| Z30fd            | £129 |
| Z33WP            | £148 |
| S2000HD          | £174 |
| F200EXR          | £249 |
| Big Job HD-3W    | £284 |
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| LEGRIA FS 22   | £499  | £459  |
| LEGRIA HF 200  | £550  | £509  |
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Compact Flash

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| 8GB  | £59.99  |
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Compact Flash

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|------|---------|
| 4GB  | £33.99  |
| 8GB  | £54.99  |
| 16GB | £144.99 |
| 32GB | £199.99 |

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Secure Digital

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| 8GB | £89.99 |

Compact Flash

|      |        |
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| 8GB  | £24.99 |
| 16GB | £44.99 |
| 32GB | £69.99 |

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## Canon

### Featured Printers

The Canon PIXMA Pro 9500 Mark II improves on the already popular Mark I model with the addition of 16 bit/channel printing. This offers a wider colour gamut including dedicated Mono Printing, an Ambient Light Correction feature and a Plug-In for Adobe Photoshop. Software that allows Canon EOS users to directly print RAW files without the need for conversion. Adobe PS Elements 6.0 and Canon Software is included.



**NEW**

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• 8.9 - 14ppm Colour  
• A3+ or less  
• 4 Colour Ink  
• CD printing  
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PGI-58K **£15.17**

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• ChromaLife100+ system  
• CO/DO Printing  
• 5 Single Ink  
PIXMA IP4600 **£269.99**  
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• 48bit color  
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A brand new range of soft, textured fine art paper ideal for reproducing images such as portraits and landscapes, for galleries and individual framed prints

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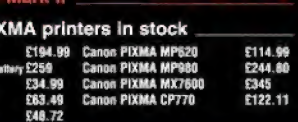
### Canon Pro 9500 Mark II

**NEW £649**



### Canon Pro 9000 Mark II

**NEW £449**



### Other Canon PIXMA printers in stock

|                                |         |                    |         |
|--------------------------------|---------|--------------------|---------|
| Canon PIXMA IP100              | £194.99 | Canon PIXMA MP620  | £114.99 |
| Canon PIXMA IP100 with Battery | £259    | Canon PIXMA MP980  | £244.80 |
| Canon PIXMA IP2600             | £34.99  | Canon PIXMA MX7000 | £345    |
| Canon PIXMA IP3600             | £83.49  | Canon PIXMA CP770  | £122.11 |
| Canon PIXMA MP190              | £48.72  |                    |         |

## Canon Multifunction Printers

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• 8.8cm TFT display  
• Wi-Fi connectivity  
PIXMA MP980 **£244.80**  
CL-521 **£10.99**  
PGI-520 **£9.99**

• 4800dpi scanner  
• Print, Copy, Scan  
• 4.8cm TFT display  
PIXMA MP630 **£139.99**  
CL-521 **£10.99**  
PGI-520 **£9.99**

• 9600x2400 dpi  
• 2.5inch screen  
• 5 Colour Ink  
PIXMA MP640 **£79**  
CL-521 **£10.99**  
PGI-520 **£9.99**

• 9600x2400 dpi  
• 2" LCD Display  
• Scan 2400dpi  
PIXMA MP640 **£79**  
CL-521 **£10.99**  
PGI-520 **£9.99**

• 9600x2400 dpi  
• 2" LCD Display  
• Scan 2400dpi  
PIXMA MP640 **£79**  
CL-521 **£10.99**  
PGI-520 **£9.99**

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C13T054 **£12.71**

PX700W  
C13T060 **£9.09**

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C13T084 **£9.09**

Stylus R1900 **£404.99**  
C13T087 **£9.29**  
Gloss Optimizer **£6.84**

Pro Photo 4880 A2+  
C13T605 **£1452.67** or **£36.09**

Pro Photo 4880 A2+  
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C13T602 **£2306.67** or **£1066.67** inc Loyalty Disc\*  
From **£38.88**

Stylus Photo R2880 A3+  
C13T059 **£599**  
£18.17

### Epson Inkjet Paper

|                                    |  |                                      |  |
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| <b>Premium Glossy Photo Paper</b>  |  | <b>Premium Semigloss Photo Paper</b> |  |
| A3 (20 Sheets) <b>£28.37</b>       |  | A3 (20 Sheets) <b>£29.35</b>         |  |
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| T054 For R800/1900  | CMY Pack <b>£38.20</b>     |
| T059 For R2400      | CMYK Pack <b>£39.11</b>    |
| T059 For R2400      | Photo Pack <b>£38.11</b>   |
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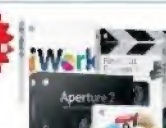
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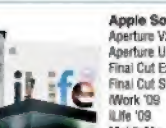
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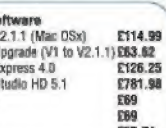
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Aperture V2.1.1 (Mac OSx) **£114.99**  
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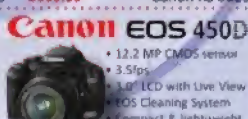


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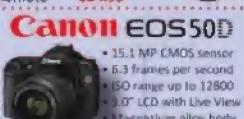
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D35AFN Flash Gun - Nikon £89.99  
DRF14C Ring Flash - Canon £109.99  
DRF14C Ring Flash - Nikon £109.99  
LED 8 Ringlight for Compact Digital Cameras £49.99

**Filters**  
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**Nissin Flashguns**

Di28 Flash - Canon £59.99  
Di28 Flash - Nikon £59.99  
Di466 Flash - Canon £89.99  
Di466 Flash - Nikon £89.99  
Di622 Flash - Canon £99.99  
Di622 Flash - Nikon £99.99

SC-01 Universal Shoe Cord £49.99

**Nissin Di866 Pro Flash**

**IN STOCK!!**  
Our Price £259.99

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| 14mm f/2.8 SP AF           | £599.99 | 28-300mm f/3.5-6.3 XR Di    | £257.99 |
| SP AF 90mm f2.8 Di Macro   | £339.99 | 28-300mm f/3.5-6.3 XR Di VC | £509.99 |
| 17-50mm f/2.8 Di II        | £334.99 | 55-200mm Di II AF           | £109.99 |
| 10-24mm f/3.5-4.5 Di-II SP | £379.99 | 70-200mm f/2.8 Di LD (IF)   | £629.99 |
| 18-200mm f/3.5-6.3 Di      | £158.99 | 70-300 f4-5.6 Di LD Macro   | £123.99 |
| 18-250mm f/3.5-6.3 Di      | £349.99 | 200-500mm f/5-6.3 Di LD IF  | £849.00 |
| 18-270 f/3.5-6.3 VC Macro  | £449.99 |                             |         |
| 28-75mm f2.8 XR Di Macro   | £339.99 |                             |         |
| 28-75mm f2.8 XR Di LD Asp  | £269.99 |                             |         |
| 28-200mm f3.8-5.6 XR Di    | £257.99 |                             |         |

Available in Canon or Nikon mounts

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|                               |         |                               |         |
|-------------------------------|---------|-------------------------------|---------|
| 52mm UV                       | £12.60  | 62mm HD Digital UV (0)        | £45.63  |
| 52mm Circular Polarizing      | £31.77  | 62mm HD Digital Circular Pol. | £88.20  |
| 52mm SHMC Pro 1-D UV          | £50.87  | 67mm UV                       | £26.82  |
| 52mm HD Digital Circular Pol. | £178.03 | 67mm Circular Polarizing      | £62.37  |
| 52mm HD Digital UV (0)        | £35.46  | 67mm SHMC Pro 1 UV            | £64.91  |
| 55mm UV                       | £14.04  | 67mm HD Digital UV (0)        | £52.74  |
| 55mm Circular Polarizing      | £35.19  | 67mm HD Digital Circular Pol. | £97.20  |
| 55mm SHMC Pro 1-D UV          | £32.94  | 72mm UV                       | £33.57  |
| 55mm HD Digital UV (0)        | £37.33  | 72mm Circular Polarizing      | £63.36  |
| 55mm HD Digital Circular Pol. | £85.14  | 72mm HD Digital UV (0)        | £61.83  |
| 58mm UV                       | £16.29  | 72mm HD Digital Circular Pol. | £124.20 |
| 58mm Circular Polarizing      | £40.59  | 72mm SHMC Pro 1-D UV          | £50.49  |
| 58mm SHMC Pro 1-D UV          | £35.19  | 77mm SHMC Pro 1-D UV          | £56.07  |
| 58mm HD Digital UV (0)        | £40.59  | 77mm SHMC Pro 1-D Circ-pol    | £141.84 |
| 58mm HD Digital PL-CIR        | £87.12  | 77mm UV                       | £40.59  |
| 62mm UV                       | £21.06  | 77mm Circular Polarizing      | £77.31  |
| 62mm Circular Polarizing      | £53.73  | 77mm HD Digital UV (0)        | £72.99  |
| 62mm SHMC Pro 1-D UV          | £39.51  | 77mm HD Digital Circular Pol. | £145.80 |

**Tokina**

AT-X 35mm f/2.8 Macro £359.99  
AT-X 100mm f/2.8 Macro £349.99  
AT-X 10-17mm f/3.5-4.5 DX £469.99  
AT-X 11-16mm f/2.8 Pro DX £499.99  
AT-X 12-24mm f/4 DX £479.99  
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AT-X Pro 50-135mm f/2.8 £669.99  
AT-X 80-400mm f/4.5-5.6 £559.99

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**Kenko**

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|                        |         |
|------------------------|---------|
| 1.4x MC4 OGX           | £135.00 |
| 2.0x MC4 DGX           | £139.41 |
| AF 2x Pro 300 DG Conv. | £179.99 |
| AF 3x Pro 300 DG Conv. | £179.90 |
| DG Tube Set 36x20x12   | £129.99 |

**Lensbabies**

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**Software at Park Cameras**

Adobe Photoshop Elements 7.0 (Windows) £59.99\*  
Adobe Premier Elements 7.0 (Windows) £73.49  
PS Elements 7.0 + Premier Elements 7.0 £107.99  
Adobe Photoshop CS4 (Windows) £56.99  
Adobe Lightroom 2.0 (Windows / Mac) £224.99  
Lightroom 2.0 Upgrade (Windows / Mac) £91.99

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# Printers at Park Cameras

**Canon Pixma MP620**  
**A4 Multi-Function Printer**  
Fast and feature-packed home printing for creative users

**£139.00\***

SRP £149.00



**Canon Pixma iP4600**  
**A4 Printer**  
Superior prints and functionality for the best in home photo and document printing.

**£99.00\***

SRP £109.00



**Canon Pixma Pro 9500 Mark II**  
**A3+ Printer**  
The professional-quality A3 photo printer enabling you to achieve better results, faster.

**£649.00\***

SRP £729.00



**NEW & IN STOCK!**

**Epson Stylus Photo PX650**  
**A4 Printer**  
Hi-Definition All-in-One photo printer

**£129.99\***



**NEW & IN STOCK**

**HP Photosmart C8180**  
**A4 Printer**  
All-in-One Printer, Scanner, Copier

**£199.99**

SRP £294.99



**NEW LOW PRICE**

**Epson Stylus Photo R1900**  
**A3+ Printer**  
Improved vibrancy & facial tones with Red & Orange ink cartridges

**£379.99\***

SRP £489.35

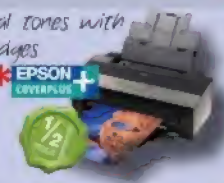
\*Offer available whilst stock lasts.

Half Price extended warranty available until 30th September '09. See website or visit us in-store for details.

**HP Photosmart Pro 9180**  
**A3+ Printer**  
Print professional quality photographs that resist fading for generations

**£459.00\***

SRP £599.99



**Epson Stylus Pro 3800**  
**A2+ Printer**  
Compact A2 Printer delivering quality, reliability & flexibility

**£768.00\***

SRP £1,144.25

\*after loyalty discount. You pay £918.00 and receive £150.00 off the price on production of your old Epson A3 printer serial number. See web for full details.



## CANON PRINTERS

|                                 |         |
|---------------------------------|---------|
| Pixma iP100 Portable No Battery | £239.99 |
| Pixma iP100 Portable + Battery  | £279.00 |
| Selphy CP530 (Compact)          | £19.99  |
| Selphy CP760 (Compact)          | £79.00  |
| Selphy CP770 (Compact)          | £139.00 |
| Selphy ES3 (Compact)            | £189.00 |
| Pixma iP2600 (A4)               | £45.00  |
| Pixma iP3600                    | £69.99  |
| Pixma iP4600 (A4)               | £99.00  |
| Pixma Pro 9000 (A3+)            | £349.00 |
| Pixma Pro 9000 Mark II (A3+)    | See Web |
| Pixma Pro 9500 Mark II (A3+)    | See Web |
| Pixma MP190 (All-in-One)        | £59.00  |
| Pixma MP540 (All-in-One)        | £99.00  |
| Pixma MP620 (All-in-One)        | £139.00 |
| Pixma MP980 (All-in-One)        | £289.00 |

## EPSON PRINTERS

|                             |             |
|-----------------------------|-------------|
| Stylus Photo P50 (A4)       | £89.99      |
| Stylus Photo PX800FW (A4)   | £239.99     |
| Stylus Photo PX700W (A4)    | £149.00     |
| Stylus Photo 1400 (A4)      | £259.99     |
| Stylus Photo 1400 (A3+)     | £279.99     |
| Stylus Photo R2880 (A3+)    | £579.99     |
| Stylus Photo Pro 4880 (A2+) | £1,449.99   |
| Stylus Photo Pro 7880 (A3+) | £1,899.00** |
| Stylus Photo Pro 9880 (B0+) | £3,699.99** |

\*\*after loyalty cashback from Epson

## HP PRINTERS

|                       |         |
|-----------------------|---------|
| PhotoSmart C4480 (A4) | £79.99  |
| PhotoSmart C4580 (A4) | £129.99 |
| PhotoSmart D7460 (A4) | £136.99 |
| PhotoSmart C6380 (A4) | £129.99 |

## Canon Consumables

### Canon Inks

|                |             |
|----------------|-------------|
| BCI-6 Series   | from £11.99 |
| CLI-8 Series   | from £11.99 |
| PGI-9 Series   | from £11.99 |
| CLI-521 Series | from £9.49  |

### Canon Paper

|                 |        |
|-----------------|--------|
| <b>Glossy:</b>  |        |
| PP-201 A4 (20)  | £10.99 |
| PP-201 A3 (20)  | £22.99 |
| PR-201 A4 (20)  | £17.99 |
| PR-201 A3 (20)  | £34.99 |
| PR-201 A3+ (10) | £24.99 |
| <b>Matte:</b>   |        |
| MP-101 A4 (50)  | £14.99 |
| MP-101 A3 (50)  | £24.99 |



## Epson Consumables

### Epson Inks

|               |             |
|---------------|-------------|
| Duck Inks     | from £7.99  |
| Hummingbird   | from £8.99  |
| Cheetah Inks  | from £9.99  |
| Husky Inks    | from £11.99 |
| Seahorse Inks | from £12.10 |
| Lily Inks     | from £12.65 |
| Owl Inks      | from £13.99 |

### Epson Paper

|                                 |        |
|---------------------------------|--------|
| Glossy Photo 6"x4" (50)         | £7.99  |
| Glossy Photo 7"x5" (40)         | £9.99  |
| Glossy Photo A4 (20)            | £10.99 |
| Premium Glossy Photo 6"x4" (20) | £6.99  |
| Premium Glossy Photo 7"x5" (30) | £11.99 |

Large range of professional paper now in stock!



## HP Consumables

### HP Inks

|                  |             |
|------------------|-------------|
| 364 Series       | from £7.99  |
| 38 Series        | from £10.99 |
| 363 Series       | from £8.99  |
| 38 Series (9180) | from £29.99 |

### HP Paper

|                                   |        |
|-----------------------------------|--------|
| <b>Glossy:</b>                    |        |
| Advanced Glossy 6"x4" (60)        | £7.00  |
| Advanced Glossy A4 (50)           | £24.99 |
| Advanced Glossy A3+ (25)          | £49.99 |
| <b>Satin / Matte / Art Paper:</b> |        |
| Advanced Satin Matte A4 (25)      | £14.99 |
| Advanced Satin Matte A3+ (25)     | £34.00 |
| Aquarella Art Paper A3+ (25)      | £61.00 |
| Watercolour Art Paper A3+ (25)    | £69.99 |



# Scanners at Park Cameras

**Epson Perfection V350**  
**Flatbed Scanner**  
Slimline scanner that makes high quality photo & film scanning simple

**£89.99\***

SRP £117.44

\*Offer available whilst stock lasts.



**Epson Perfection V700**  
**Flatbed Scanner**  
The perfect choice for serious photo enthusiasts

**£404.99**

SRP £469.78



**NEW LOW PRICE**

## CANON SCANNERS

|                          |         |
|--------------------------|---------|
| LiDE 200 (Flatbed)       | £49.00  |
| LiDE 200 (Flatbed)       | £74.00  |
| LiDE 700F (Flatbed) NEW  | See Web |
| Canoscan S400F (Flatbed) | £129.00 |
| Canoscan S600F (Flatbed) | £159.00 |
| Canoscan 8800F (Flatbed) | £179.00 |

## NIKON SCANNERS

|   |           |
|---|-----------|
| Coolscan 9000 ED (Film/Slide)           | £2,799.00 |
| <b>NIKON SCANNER ACCESSORIES</b>        |           |
| SF-210 Slide Feeder (C/scan 5000)       | £549.99   |
| FH-G1 Medical Slide Holder              | £247.99   |
| FH-B355 35mm Strip Film Holder          | £73.99    |
| FH-B69M 120/220 Mounted Film Holder     | £118.99   |
| FH-B69G 120/220 Strip Film Holder Glass | £360.99   |
| FH-3 Strip Film Holder                  | £24.99    |

## EPSON SCANNERS

|                                 |         |
|---------------------------------|---------|
| Perfection 4490 Photo (Flatbed) | £139.99 |
| Perfection V300 Photo (Flatbed) | £79.99  |
| Perfection V350 Photo (Flatbed) | £89.99* |
| Perfection V500 Photo (Flatbed) | £199.99 |
| Perfection V700 Photo (Flatbed) | £404.99 |
| Perfection V750 Photo (Flatbed) | £549.99 |

## HP SCANNERS

|                         |         |
|-------------------------|---------|
| ScanJet G3010 (Flatbed) | £49.99  |
| ScanJet G4010 (Flatbed) | £107.99 |
| ScanJet G4050 (Flatbed) | £169.99 |

## PLUSTEK SCANNERS

|                              |         |
|------------------------------|---------|
| Plustek OptiFilm 7300 (Film) | £169.00 |
| Plustek OptiFilm 7500i SE    | £219.99 |
| Plustek OptiFilm 7500i AI    | £259.99 |





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## Photographic / Laptop Bags at Park Cameras

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### Lowepro Flipside 200

Lightweight Backpack



In Stock at only **£54.99!**

**SPECIAL OFFER!**

### CRUMPLER "The PP 55"

This Issue ONLY!

Compact Case



In Stock at only **£10.99!**

**SPECIAL OFFER!**



### DR-465 DPS

Backpack

SAVE **£19.95**

In Stock at only **£45.00!**

**SPECIAL OFFER!**

#### Compact Photo Bags

|                      |             |
|----------------------|-------------|
| Z 20 - Navy          | £2.00       |
| MX 10 Navy (9)       | £3.00       |
| MX 20 Navy           | £2.00       |
| MX 25 Navy           | £3.00       |
| D-Res Pouches        | from £5.00  |
| Slider compact cases | from £7.00  |
| Rezo cases           | from £9.99  |
| Tasco Camera Sleeves | from £10.00 |
| Ridge 30 Black (2)   | £7.00       |
| Ridge 60 Black (4)   | £12.99      |
| Napoli compact cases | from £14.99 |
| Apex compact cases   | from £15.66 |
| Cirrus compact cases | from £19.57 |
| Clips cases          | from £19.57 |

#### Lens Cases

|                            |             |
|----------------------------|-------------|
| S&F Lens Cases             | from £3.70  |
| S&F Pouches                | from £16.94 |
| S&F Top Loader 70 AW       | £49.99      |
| S&F Top Loader 75 AW       | £54.99      |
| S&F Lens Trekker 500 AW II | £159.99     |

#### Shoulder Bags

|                           |             |
|---------------------------|-------------|
| Terracine Cases           | from £11.00 |
| Nova Mini AW - Black (16) | £16.99      |
| Edit 110 Black            | £20.24      |
| Nova 140 AW cases         | from £23.49 |
| Edit 120 + Black          | £29.04      |
| Edit 140+ Black           | £29.99      |
| Edit 140 Digital Playbag  | £29.04      |
| Stealth Reporters         | from £72.99 |
| Classified Shoulder Bag   | from £99.00 |
| Commercial AW - Black     | £149.99     |

#### Backpacks

|                           |             |
|---------------------------|-------------|
| Flipside 200              | £54.99*     |
| Flipside 300              | £70.40      |
| Flipside 400 AW/Black     | £95.20      |
| Fastpack 350              | £74.80      |
| CompuDaypack Slate Grey   | £87.12      |
| Mini Trekker A/W Black    | £95.92      |
| CompuRover A/W Backpack   | £126.99     |
| CompuTrekker A/W Black    | £118.93     |
| Vertex 100 AW             | £96.49      |
| Vertex 200 AW             | £126.41     |
| Vertex 300 AW             | £144.99     |
| Nature Trekker A/W II     | £145.99     |
| CompuTrekker Plus A/W     | £156.33     |
| Pro Trekker A/W II        | £238.66     |
| Rolling CompuTrekker A/W  | £186.56     |
| DZ100 Dryzone B/pack Grey | £182.34     |
| DZ200 Dryzone B/pack Grey | £252.74     |
| DZ Dryzone Rover (Grey)   | £183.04     |
| Fastpack backpacks        | from £63.62 |

#### Topload Bags

|                         |             |
|-------------------------|-------------|
| Cirrus Topload cases    | from £19.36 |
| TLZ Mini - Black / Navy | £19.36      |
| TLZ 1 - Black / Navy    | £23.76      |
| TLZ 2 - Navy            | £29.00      |
| Off Trail 1 - Black     | £39.60      |
| Off Trail 2 - Black     | £52.80      |

#### Sling Bags

|                  |        |
|------------------|--------|
| Slingshot 100 AW | £44.99 |
| Slingshot 200 AW | £57.99 |
| Slingshot 300 AW | £69.99 |

#### Compact Photo Bags

|                             |             |
|-----------------------------|-------------|
| P.P. Standard (incl. strap) | from £13.00 |
| P.P. Special Edition        | See Web     |
| Female                      | See Web     |
| Lolly Dolly                 | from £16.00 |
| Muffin Top Pouch            | from £15.00 |
| Messenger Boy Pouch         | See Web     |
| Royale Thingy               | See Web     |
| The Huggemugger             | See Web     |
| Gaffer Royale               | See Web     |

#### Shoulder Bags

|               |              |
|---------------|--------------|
| Jimmy Bo      | from £30.00  |
| Messenger Boy | See Web      |
| New Delhi     | from £110.00 |
| Muffin Top    | from £40.00  |
| Female        | See Web      |
| Leather       | See Web      |

#### Backpacks

|                        |              |
|------------------------|--------------|
| Muffin top Backpack    | from £110.00 |
| Messenger Boy Backpack | See Web      |
| Easy Weasy             | £160.00      |
| Turkish Shower         | £160.00      |
| The Mob Boss           | £200.00      |
| Pony Box               | £185.00      |
| Italian Connection     | £205.00      |
| The Big Cheese         | £225.00      |
| Pretty Bella           | See Web      |

#### Laptop Sleeves

|              |             |
|--------------|-------------|
| Boomer       | from £17.99 |
| Gimp         | £33.00      |
| Super Boomer | from £34.99 |
| Cheesytime   | from £39.99 |
| Beancounter  | £89.99      |
| Fishy Slip   | £108.00     |

#### Compact Photo Bags

|                      |        |
|----------------------|--------|
| DP-403 Digital Pouch | £10.95 |
| DP-405 Digital Pouch | £12.95 |
| DP-407 Digital Pouch | £13.95 |
| DP-409 Digital Pouch | £13.95 |
| DP-411 Digital Pouch | £14.95 |
| DP-413 Digital Pouch | £15.95 |
| DP-415 Digital Pouch | £16.95 |

#### Backpacks

|                          |         |
|--------------------------|---------|
| BP-502 GDC               | £299.99 |
| HB-207 GDC Hiker         | £229.95 |
| HB-205 GDC Hiker         | £229.95 |
| R-103 GDC                | £189.95 |
| R-106 GDC                | £224.95 |
| R-102 GDC                | £149.95 |
| R-101 GDC                | £119.95 |
| DR-465 DPS Digital       | £69.95  |
| DR-467 DPS Digital       | £84.95  |
| DR-467 DPS Digital (Red) | £89.95  |

#### Sling / Torso Packs

|                      |         |
|----------------------|---------|
| S-312 GDC Sling      | £39.95  |
| D-3N1-10 DPS Sling   | £84.95  |
| T-212 GDC Torso-Pack | £79.95  |
| T-214 GDC Torso-Pack | £99.95  |
| T-216 GDC Torso-Pack | £149.95 |

#### Holsters

|                        |        |
|------------------------|--------|
| DH-421 Digital Holster | £24.95 |
| DH-423 Digital Holster | £27.95 |
| DH-425 Digital Holster | £32.95 |
| H-10 GDC Holster       | £64.95 |
| H-12 GDC Holster       | £74.95 |
| H-14 GDC Holster       | £84.95 |

#### Rolling Bags

|                           |         |
|---------------------------|---------|
| OC-82 GDC Photo Organizer | £179.95 |
| OC-84 GDC Photo Organizer | £239.95 |
| OC-86 Organizer           | £399.95 |
| OC-88 Organizer           | £349.95 |
| OC-97 Organizer           | £449.95 |

#### Waist / Shoulder Bags

|                       |         |
|-----------------------|---------|
| EC-02 GDC (3)         | £19.95  |
| C-58 GDC (4)          | £39.95  |
| PB-44 GDC             | £44.95  |
| PB-46 GDC             | £54.95  |
| PB-48 GDC             | £64.95  |
| W-92 GDC Waist-Pack   | £89.95  |
| W-94 GDC Waist-Pack   | £99.95  |
| EXO-7 GDC Small       | £89.95  |
| EXO-12 GDC Small      | £89.95  |
| WS-606 GDC            | £179.95 |
| WS-604 GDC            | £149.95 |
| SB-902 GDC S Reporter | £129.95 |
| SB-904 GDC M Reporter | £149.95 |
| SB-907 GDC L Reporter | £169.95 |

#### Elements Covers

|           |        |
|-----------|--------|
| E-690 GDC | £39.95 |
| E-702 GDC | £49.95 |
| E-705 GDC | £74.95 |

#### Lighting Bags

|                            |         |
|----------------------------|---------|
| Palms 1 Arch               | £297.45 |
| Palms 2 Arch               | £339.95 |
| Palms 3 Arch               | £362.45 |
| Hexabag 3 Stands Organizer | £254.95 |
| Hexabag 2 Stands Organizer | £251.95 |
| Hexabag 1 Stands Organizer | £242.95 |

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## Tripods / Monopods at Park Cameras

### SLIK Pro 700DX



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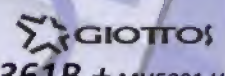
### GT 1541T 4 Section Traveller Tripod

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### 9361B + MH5001 Head

**SPECIAL OFFER!**

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|                |        |
|----------------|--------|
| Monopod 350    | £35.00 |
| Monopod 350 AF | £90.00 |

#### Heads

|                                |         |
|--------------------------------|---------|
| Slik AF 1100E Head with Q/R    | £69.99  |
| Slik SH-704E 3-Way Q/R Head    | £81.00  |
| Slik AF 2100 Head (1/4 - 3/8") | £70.99  |
| Slik SH-807E Q/R 3-Way Head    | £115.00 |

#### Tripods

|                                     |         |
|-------------------------------------|---------|
| Pro 500DX Complete                  | £79.99  |
| Pro 400DX Complete                  | £90.00  |
| Pro 500EZ Complete                  | £99.99  |
| Pro 580DX Complete                  | £109.99 |
| Pro 330DX Complete                  | £120.00 |
| Pro 340DX Complete                  | £135.00 |
| Pro 780DX Complete                  | £139.99 |
| Pro 330EZ Complete                  | £144.90 |
| The Professional Legs Only          | £119.99 |
| Professional II-LE Legs Only        | £149.99 |
| The Professional 4 Section Leg Only | £239.99 |

#### Monopods

|                                |         |
|--------------------------------|---------|
| GM2341 with ALR and Belt Clip  | £109.95 |
| GM2561T with ALR and Belt Clip | £152.95 |

#### Heads

|                                     |         |
|-------------------------------------|---------|
| G0077 Centre Ball 1/4" Screw        | £34.95  |
| G1077M Centre Ball 1/4" Screw       | £64.95  |
| GH5380S Systematic Ball 1/4" screw  | £224.95 |
| GH5380SQR Systematic Ball 1/4" + QR | £269.95 |

#### Tripods

|  |         |
|--|---------|
| GT2942 Basalt Tripod with G-LOCK (2)                                     | £299.95 |
| GT1541T Traveller Tripod with G-LOCK                                     | £377.95 |
| GT1550T Traveller c/w G1077M Head  | £409.99 |
| GT1581OT Ocean Traveller with Ocean G-Lock & Stainless Steel Casting NEW | See Web |
| GT2941LLVL Levelling with G-LOCK   | £439.99 |
| GK1580QR (GT1541 + GH1780QR Kit)   | £539.95 |
| GK2550EQQR (GT2531EX + GH2750QR + Spiked Feet Kit)                       | £593.95 |
| GT1581 Ocean Traveller NEW   | £799.95 |

#### Monopods

|                        |         |
|------------------------|---------|
| 234 Monopod Tilt Head  | £16.95  |
| 790B Modo Mono         | £24.95  |
| 679B Black             | £34.21  |
| 681B Pro Black         | £43.99  |
| 682B Self Standing Pro | £77.99  |
| 685B Neotec            | £112.50 |
| 695CX Magfiber         | £139.99 |
| 560B Fluid Base Video  | £109.95 |

#### Heads

|                               |         |
|-------------------------------|---------|
| MN 234RC Tilt Head +QR        | £26.95  |
| 488RC2 Compact Ball Head      | £44.00  |
| 488RC2                        | £65.00  |
| 460MG 3D Magnesium            | £79.95  |
| 488RC2                        | £89.95  |
| 322RC2 Heavy Duty Action Ball | £99.95  |
| 468MG Hydrostatic Ball        | £199.95 |
| 468MGRC2 Hydrostatic + RC2    | £199.95 |

#### Tripods

|                           |         |
|---------------------------|---------|
| 709B Digi! Tabletop Black | £34.95  |
| 785B Modo Maxi            | £49.00  |
| 190XB Aluminium Black     | £93.95  |
| 055XB + 804RC2            | £99.90  |
| 055XB + 128RC Head (S)    | £129.90 |
| 055XPROB                  | £119.95 |
| 190CXPRO3 Carbon Fibre    | £199.95 |
| 055XB + 804RC2 Kit        | £209.96 |
| 458B Neotec Tripod        | £219.95 |
| 190CXPRO4 Carbon Fibre    | £249.00 |
| 055CX3 CF 3 Section       | £239.99 |
| 055CXPRO3 3 Section CF    | £269.95 |

#### Tripod Accessories

|                            |        |
|----------------------------|--------|
| 337 Hotshoe Two Arm Bubble | £24.95 |
| MBAG70cm Tripod Bag        | £29.95 |
| MBAG80P Tripod Bag 80cm    | £59.95 |
| MBAG90P Tripod Bag 90cm    | £74.95 |

#### Monopods

|                                |        |
|--------------------------------|--------|
| MML3260B 4 Section Pro         | £34.26 |
| MML3270B 4 Section Pro (170cm) | £39.15 |

#### Heads

|                                   |        |
|-----------------------------------|--------|
| GTMH7001-652 Ball Series 1 + QR   | £39.15 |
| MH5001 Professional 3-Way         | £44.04 |
| MH1302-652 Series II Ball with QR | £68.51 |
| GTMH1300-621 Ball Series II + QR  | £97.87 |

#### Tripods

|  |         |
|--|---------|
| VT-806 Light Duty Photo/Video          | £24.47  |
| VT-808 Light Duty Photo/Video          | £29.36  |
| GTV7-809 Light Duty Photo/Video        | £34.26  |
| MT9241B 4 Section Aluminium            | £77.99  |
| MTL9251B 3 Section Aluminium           | £78.00  |
| MTL9351B 3 Section Aluminium           | £87.99  |
| MTL3261B 3 Section Aluminium with Vert | £92.98  |
| MTL8246B Carbon Pro Tripod             | £95.08  |
| MTL3361B 3 Section Aluminium           | £107.66 |
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|------------------|-----------------|--|-----------------|
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**WHY BUY?** Modern, slim design with ultra comfortable harness. Fast access & TST protection. Elements cover. Tripod mount and Insertrolley.

R-101 D-SLR's, 3/4 lenses, flash & accs ..... **£89.99**  
R-102 D-SLR's, 4/5 lenses, flash & accs ..... **£119.99**  
R-103 (pictured) D-SLR's, 4/5 lenses, flash, 15.4" laptop & accessories ..... **£129.99**  
R-106 Very high protection, comfortable harness & full weather protection. Fits 2-3 D-SLR camera bodies with battery grips, up to 8 lenses (up to 400 mm), flashgun, accessories and 15" laptop ..... **£189.99**

**GDC Hiker Backpacks**

**WHY BUY?** VERY comfortable harness, TST protection. Tripod mount & Insertrolley.

HB-205 (pictured) 2 Pro D-SLR's, 6/8 lenses, flash & accessories ..... **£159.99**  
HB-207 2/3 Pro D-SLR's, 6/8 Pro lenses, flash & accessories ..... **£179.99**

**KATA CLEARANCE BARGAINS**

SB-904 GDC Medium Reporter Shoulder Case ..... **£79.99** (was £149.99 **SAVE £70**)  
EXO-12 GDC Shoulder Bag ..... **£59.99** (was £89.99 **SAVE £30**)  
DR-465 Backpack (pictured) Colours: Pink, Yellow, Tan - WHILE STOCKS LAST! ..... **£39.99**

**NATIONAL GEOGRAPHIC Walkabout Series**

Designed for everyday adventures.

**Midi Satchell** ..... **£79.99**  
**Medium Satchell** ..... **£109.99**  
**Small Rucksack** ..... **£139.99**  
**Medium Rucksack** ..... **£149.99**

**Earth Explorer Shoulder Bags**

**WHY BUY?** Natural canvas style with lots of pockets.

Small D-SLR with lens & accessories ..... **£39.99**  
Midi D-SLR, 1/2 lenses & personal items ..... **£51.99**  
Medium D-SLR, 2/3 lenses & personal items ..... **£79.99**  
Large NEW! ..... **£109.99**

**Earth Explorer Backpacks**

Small D-SLR, 2 lenses, flash & personal items ..... **£99.99**  
Medium (pictured) D-SLR, 2/3 lenses, 17" Laptop & personal items ..... **£99.99**

**tamrac** No One Carries It Off Better

**Aero Speed Pack 85 Dual Access Photo Backpack**

**WHY BUY?** Innovative Sling Backpacks with water resistant zips. Holds Pro DSLR with Pro Zoom, 2-3 more lenses, Flash, up to 17" Laptop plus personal items up top. **mp £115 SAVE £55** ..... **£69.99**

**Aero Speed Pack 75 Dual Access Photo Backpack**

Holds DSLR with zoom, 2-3 more lenses, Flashgun plus personal items up top. **mp £85 SAVE £30** ..... **£54.99**

**Expedition 5X Photo Backpack**

While stocks last! **RRP £139.99 SAVE £60** ..... **£89.99**  
Expedition 6X ..... **£99.99**  
Expedition 7X ..... **£139.99**  
Expedition 8X ..... **£159.99**

**Velocity Sling Packs**

**WHY BUY?** Comfortable to carry on your back then sling round for front use. Lightweight & compact.

Velocity 10X 2x Pro D-SLRs, 2-3 Pro lenses, flash & accessories ..... **£59.99**

Velocity 7X D-SLR, 2/3 lenses, Flash & accessories ..... **£44.99**  
Velocity 8X Pro D-SLR, 3/4 lenses, flash & accessories ..... **£47.99**  
Velocity 9X Pro D-SLR, 3/4 lenses, Flash & accs ..... **£49.99**

**Adventure Daypacks**

Adventure 6 D-SLR, 2/3 lenses & accs ..... **£44.99**  
Adventure 7 (pictured) Pro D-SLR, 2/3 lenses, flash & accessories ..... **£49.99**  
Adventure 9 1 or 2 D-SLR's, 3 or 4 lenses, flash, 15" laptop & accessories ..... **£79.99**  
Adventure 10 1/2 Pro D-SLR's, 5/6 lenses, flash, 17" laptop & accs ..... **£139.99**

**Cyberpack 6**

**WHY BUY?** Improved version for large D-SLR outfit and 15" Laptop. WHILE STOCKS LAST! **mp £119.99 SAVE £60** ..... **£59.99**

**Pro Shoulder Bags**

Pro 5 Pro D-SLR, 3/4 lenses, Flash & accs ..... **£44.99**  
Pro 8 1/2 Pro D-SLR's, 4/5 lenses, Flash & accessories ..... **£58.99**  
Pro 12 2 Pro D-SLR's, 6/7 lenses, Flash & accessories ..... **£79.99**

**Ultra Pro**

**WHY BUY?** Ideal for the professional photographer carrying two DSLRs with lenses attached, 3-4 additional lenses, flashes, accessories and a small laptop.

Ultra Pro 11 ..... **£149.99**  
Ultra Pro 13 2x DSLRs with lenses + 3-4 extra lenses, flash & accessories and small 15.4" laptop ..... **£159.99**



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### PRINTER INK CARTRIDGES



## EPSON

COMPATIBLE & ORIGINAL INK



At Premier Ink Supplies, we stock two types of cartridges for Epson printers - **Originals**, which are made by Epson, and **Compatibles**, which are made by a UK company called **Jet Tec**. Using **Jet Tec Compatibles** is a way of saving money, without compromising on the quality of your prints. Here're the results from two independent ink tests that agree...

"Jet Tec's colours were superb, with single greys and blacks very close to Epson ...so Jet Tec wins!"  
- Total Digital Photography Magazine

"What we're looking at here is not only the best choice of ink for the R300 printer, but also the best ink in this group test, period. There's just no getting away from the superb combination of performance and pricing!"  
- Computer Upgrade Magazine



| Cartridge Code:    | Originals:   | Jet Tec Compatibles:      | Suitable EPSON Printers:                         |
|--------------------|--------------|---------------------------|--|
| T007 Black         | £21.52 16ml  | £3.90 20ml, 3 for £10.75  | Photo 790, 870, 890, 895, 900, 915, 1290         |
| T008 Colour        | £17.61 49ml  | £4.89 50ml, 3 for £13.70  | Photo 790, 870, 890, 895, 915                    |
| T009 Colour        | £24.46 69ml  | £4.89 70ml, 3 for £13.70  | Photo 900, 1270, 1290                            |
| T026 Black         | £19.56 16ml  | £3.90 20ml, 3 for £10.75  | Photo 810, 830, 830u, 925, 935                   |
| T027 Colour        | £19.56 49ml  | £4.89 50ml, 3 for £13.70  | Photo 810, 830, 830u, 925, 935                   |
| T036 Black         | £9.78 10ml   | £3.90 13ml, 3 for £10.75  | C42, C44, C46                                    |
| T037 Colour        | £11.73 25ml  | £4.89 31ml, 3 for £13.70  | C42, C44, C46                                    |
| T040 Black         | £19.56 17ml  | £3.90 20ml, 3 for £10.75  | C82, CX3200                                      |
| T041 Colour        | £19.56 37ml  | £4.89 48ml, 3 for £13.70  | C82, CX3200                                      |
| T0331-336 Set of 7 | £79.99       | £29.35, 3 sets for £86.12 | Photo 950, 960                                   |
| T0331/2/3, each    | £11.73 17ml  | £4.89 23ml, 3 for £13.70  | Photo 950, 960                                   |
| T0334/5/6, each    | £11.73 17ml  | £4.89 23ml, 3 for £13.70  | Photo 950, 960                                   |
| T0341-347 Set of 7 | £97.99       | Not yet available.        | Photo 2100                                       |
| T0341/8, each      | £11.73 17ml  | Not yet available.        | Photo 2100                                       |
| T0342/3/4, each    | £14.67 17ml  | Not yet available.        | Photo 2100                                       |
| T0345/6/7, each    | £14.67 17ml  | Not yet available.        | Photo 2100                                       |
| T0441-454 Set of 4 | £39.99       | £14.67, 3 sets for £42.08 | C64/66, C84/86, CX3600/3650/6400/6600            |
| T0441 Black        | £16.63 13ml  | £4.89 23ml, 3 for £13.70  | C64/66, C84/86, CX3600/3650/6400/6600            |
| T0452/3/4, each    | £9.78 9ml    | £3.90 20ml, 3 for £10.75  | C64/66, C84/86, CX3600/3650/6400/6600            |
| T0481-486 Set of 6 | £59.99       | £19.56, 3 sets for £56.75 | R200/220/300/320/340 RX500/600/620/640           |
| T0481/2/3, each    | £13.70 13ml  | £3.90 23ml, 3 for £10.75  | R200/220/300/320/340 RX500/600/620/640           |
| T0484/5/6, each    | £13.70 13ml  | £3.90 23ml, 3 for £10.75  | R200/220/300/320/340 RX500/600/620/640           |
| T0540-549 Set of 8 | £99.99       | £35.22, 3 sets for £97.87 | Photo R800, R1800                                |
| T0540 Gloss        | £7.82 13ml   | £3.90 23ml, 3 for £13.70  | Photo R800, R1800                                |
| T0541/2/3/4, each  | £13.70 13ml  | £4.89 23ml, 3 for £13.70  | Photo R800, R1800                                |
| T0547/8/9, each    | £13.70 13ml  | £4.89 23ml, 3 for £13.70  | Photo R800, R1800                                |
| T0551-554 Set of 4 | £27.99       | £14.67, 3 sets for £42.08 | Photo R240/245, RX420/425/520/525                |
| T0551 Black        | £8.80 9ml    | £4.89 23ml, 3 for £10.75  | Photo R240/245, RX420/425/520/525                |
| T0552/3/4, each    | £8.80 9ml    | £3.90 23ml, 3 for £10.75  | Photo R240/245, RX420/425/520/525                |
| T0591-599 Set of 8 | £92.99       | Not yet available.        | Photo R2400                                      |
| T0591/2/3, each    | £11.73 13ml  | Not yet available.        | Photo R2400                                      |
| T0594/5/6, each    | £11.73 13ml  | Not yet available.        | Photo R2400                                      |
| T0597/7/8, each    | £11.73 13ml  | Not yet available.        | Photo R2400                                      |
| T0611-614 Set of 4 | £27.99       | £14.67, 3 sets for £42.08 | D68/68, DX3800/3850/4200/4250/4800/4850          |
| T0611 Black        | £8.80 9ml    | £4.89 23ml, 3 for £13.70  | D68/68, DX3800/3850/4200/4250/4800/4850          |
| T0612/3/4, each    | £8.80 9ml    | £3.90 23ml, 3 for £10.75  | D68/68, DX3800/3850/4200/4250/4800/4850          |
| T0711-714 Set of 4 | £27.99       | £14.67, 3 sets for £42.08 | S20, SX100/200, D795/2120, DX4000/4400/5000/5000 |
| T0711 Black        | £8.80 7.4ml  | £4.89 13ml, 3 for £13.70  | S20, SX100/200, D795/2120, DX4000/4400/5000/5000 |
| T0712/3/4, each    | £8.80 5.5ml  | £3.90 13ml, 3 for £10.75  | S20, SX100/200, D795/2120, DX4000/4400/5000/5000 |
| T0791-796 Set of 6 | £69.99       | Not yet available.        | Photo 1400                                       |
| T0791/2/3, each    | £11.73 10ml  | Not yet available.        | Photo 1400                                       |
| T0794/5/6, each    | £11.73 10ml  | Not yet available.        | Photo 1400                                       |
| T0801-806 Set of 6 | £42.99       | £19.56, 3 sets for £56.75 | Photo R265/265/360, RX560/565/565                |
| T0801/2/3, each    | £8.80 7.4ml  | £3.90 13ml, 3 for £10.75  | Photo R265/265/360, RX560/565/565                |
| T0804/5/6, each    | £8.80 7.4ml  | £3.90 13ml, 3 for £10.75  | Photo R265/265/360, RX560/565/565                |
| T0870-879 Set of 8 | £75.99       | Not yet available.        | Photo R1900                                      |
| T0870 Gloss        | £7.82 11.4ml | Not yet available.        | Photo R1900                                      |
| T0871/2/3/4, each  | £9.78 11.4ml | Not yet available.        | Photo R1900                                      |
| T0877/8/9, each    | £9.78 11.4ml | Not yet available.        | Photo R1900                                      |
| T0961-969 Set of 8 | £77.99       | Not yet available.        | Photo R2680                                      |
| T0961/2/3, each    | £9.78 11.4ml | Not yet available.        | Photo R2680                                      |
| T0964/5/6, each    | £9.78 11.4ml | Not yet available.        | Photo R2680                                      |
| T0967/8/9, each    | £9.78 11.4ml | Not yet available.        | Photo R2680                                      |
| T5591-6 Set of 6   | £54.99       | Not yet available.        | Photo RX700                                      |
| T5591/2/3, each    | £11.73 13ml  | Not yet available.        | Photo RX700                                      |
| T5594/5/6, each    | £11.73 13ml  | Not yet available.        | Photo RX700                                      |

Please call or check our website if you cannot find cartridges for your printer.

### WIDE FORMAT INK



|   |        |
|---|--------|
| <b>EPSON Stylus Pro 3800</b>                            |        |
| T5801/5802/5803/5804/5805/5806/5807/5808/5809 80ml each | £44.03 |
| <b>EPSON Stylus Pro 4000, 4400, 7600, 9600</b>          |        |
| T5431/5432/5433/5434/5435/5436/5437/5438 110ml each     | £44.03 |
| T5441/5442/5443/5444/5445/5446/5447/5448 220ml each     | £69.48 |
| <b>EPSON Stylus Pro 4800, 4880:</b>                     |        |
| T6051/6052/6053/6054/6055/6056/6057/6138/6059 110ml     | £44.03 |
| T6061/6062/6063/6064/6065/6066/6067/6148/6069 220ml     | £69.48 |
| <b>EPSON Stylus Pro 7800, 7880, 9800:</b>               |        |
| T6021/6022/6023/6024/6025/6026/6027/6118/6029 110ml     | £44.03 |
| T6031/6032/6033/6034/6035/6036/6037/6128/6039 220ml     | £69.48 |

Please call or check our website for further details

NOTE: Prices may be subject to change, but hopefully not!



#### Canon Compatibles

|                       |        |
|-----------------------|--------|
| BCI3e Black 26ml      | £2.92  |
| BCI3e CMY 15ml        | £2.92  |
| BCI6 B/C/M/Y 15ml     | £2.92  |
| BCI6 B/C/M/Y 15ml     | £2.92  |
| PGI5 Black 30ml       | £5.87  |
| CL18 Black 15ml       | £4.89  |
| CL18 B/C/M/Y 15ml     | £4.89  |
| CL18 B/C/M/Y 15ml     | £4.89  |
| PGI520 Black 19ml     | £5.87  |
| CL1521 B/C/M/Y/GY 9ml | £4.89  |
| BCI10 Black (3 pack)  | £4.89  |
| BCI15 Colour (2 pack) | £4.89  |
| BCI15 Colour (2 pack) | £5.87  |
| BCI24 Black 9ml       | £1.94  |
| BCI24 Colour 9ml      | £2.92  |
| PG37 Black 12ml       | £9.78  |
| PG50 Black 28ml       | £12.71 |
| CL18 Colour 12ml      | £12.71 |
| CL51 Colour 24ml      | £14.67 |

#### Canon Originals

|                       |        |
|-----------------------|--------|
| BCI16 Colour (2 pack) | £21.52 |
| BCI3e Black 26ml      | £10.75 |
| BCI3e CMY 13ml        | £9.78  |
| BCI6 B/C/M/Y 13ml     | £9.78  |
| BCI6 B/C/M/Y 13ml     | £9.78  |
| PGI5 Black 26ml       | £12.71 |
| CL18 B/C/M/Y 13ml     | £11.73 |
| CL18 B/C/M/Y 13ml     | £11.73 |
| PGI9 Clear 191ml      | £11.73 |
| PGI9 B/C/M/Y/CMY 14ml | £10.75 |
| PGI9 B/C/M/Y/CMY 14ml | £10.75 |
| PGI520 Black 19ml     | £9.78  |
| CL1521 B/C/M/Y/GY 9ml | £8.80  |
| PG37 Black 11ml       | £12.71 |
| PG40 Black 15ml       | £15.65 |
| PG50 Black 22ml       | £22.51 |
| PG510 Black 9ml NEW   | £11.73 |
| PG512 Black 15ml NEW  | £15.65 |
| CL38 Colour 8ml       | £16.63 |
| CL41 Colour 12ml      | £19.56 |
| CL51 Colour 21ml      | £26.42 |
| CL52 Photo 21ml       | £19.56 |
| CL511 Colour 9ml NEW  | £15.65 |
| CL513 Colour 9ml NEW  | £19.56 |
| KP-36IP Ink & Paper   | £11.73 |
| KP-108IP Ink & Paper  | £27.39 |

Many more in stock!

#### Dell Compatibles

|                        |        |
|------------------------|--------|
| Series 1 Black (T0529) | £11.73 |
| Series 1 Black (T0530) | £12.71 |
| Series 5 Black (M4640) | £11.73 |
| Series 5 Black (M4645) | £12.71 |

Many more in stock!



#### HP Compatibles

|                     |        |
|---------------------|--------|
| No.15 Black 46ml    | £4.89  |
| No.21 Black 20ml    | £7.82  |
| No.22 Colour 24ml   | £9.78  |
| No.27 Black 24ml    | £9.78  |
| No.28 Black 24ml    | £12.71 |
| No.45 Black 46ml    | £4.89  |
| No.56 Black 46ml    | £4.89  |
| No.57 Colour 24ml   | £12.71 |
| No.58 Colour 17ml   | £12.71 |
| No.78 Black 45ml    | £9.78  |
| No.88XL Black 58ml  | £8.80  |
| No.88XL CMY 17ml    | £10.75 |
| No.110 Colour 12ml  | £7.82  |
| No.336 Black 10ml   | £10.75 |
| No.337 Black 24ml   | £10.75 |
| No.338 Black 24ml   | £12.71 |
| No.339 Black 34ml   | £10.75 |
| No.342 Colour 10ml  | £12.71 |
| No.343 Colour 21ml  | £14.67 |
| No.348 Colour 21ml  | £12.71 |
| No.350 Black 20ml   | £12.71 |
| No.351 Black 20ml   | £12.71 |
| No.363 Black 20ml   | £6.84  |
| No.363 CMY/PCPM 8ml | £4.89  |
| No.363 Set of 6     | £24.46 |

#### HP Originals

|                       |        |
|-----------------------|--------|
| No.21 Black 5ml       | £13.70 |
| No.22 Colour 5ml      | £15.65 |
| No.38 B/C/M/Y/GY 27ml | £26.42 |
| No.38 CMY/PCPM 27ml   | £26.42 |
| No.56 Black 19ml      | £16.63 |
| No.57 Colour 17ml     | £24.46 |
| No.58 Photo 17ml      | £22.51 |
| No.59 Grey 17ml       | £22.51 |
| No.100 Grey 15ml      | £22.51 |
| No.110 Colour 5ml     | £18.58 |
| No.300 Black 4ml      | £11.73 |
| No.300 Colour 4ml     | £13.70 |
| No.336 Black 5ml      | £13.70 |
| No.337 Black 12ml     | £17.61 |
| No.338 Black 11ml     | £17.61 |
| No.339 Black 21ml     | £24.46 |
| No.342 Colour 5ml     | £15.65 |
| No.343 Colour 7ml     | £18.58 |
| No.344 Colour 14ml    | £26.42 |
| No.348 Photo 13ml     | £22.51 |
| No.350 Black 4.5ml    | £13.70 |
| No.350XL Black 25ml   | £27.39 |
| No.351 Colour 3.5ml   | £15.65 |
| No.351XL Colour 14ml  | £29.35 |
| No.363 Black 8ml      | £13.70 |
| No.363 CMY/PCPM       | £8.80  |
| No.363 Set of 6       | £39.13 |
| No.364 Black 6ml      | £8.80  |
| No.364 P/C/M/Y 3ml    | £7.82  |

Many more in stock!



#### Lexmark Compatibles

|                |        |
|----------------|--------|
| No.1 Cartridge | £10.75 |
| No.2 Cartridge | £11.73 |
| No.16 Black    | £9.78  |
| No.16 Colour   | £9.78  |
| No.26 Colour   | £12.71 |
| No.27 Colour   | £11.73 |
| No.32 Photo    | £11.73 |
| No.32 Colour   | £9.78  |
| No.33 Colour   | £11.73 |
| No.34 Black    | £11.73 |
| No.35 Colour   | £12.71 |

#### Lexmark Originals

|              |        |
|--------------|--------|
| No.1 Colour  | £16.63 |
| No.14 Black  | £16.63 |
| No.15 Colour | £18.58 |
| No.17 Black  | £13.70 |
| No.23 Black  | £13.70 |
| No.24 Colour | £14.67 |
| No.27 Colour | £14.67 |
| No.28 Colour | £12.71 |
| No.29 Colour | £13.70 |
| No.31 Photo  | £24.46 |
| No.32 Black  | £14.67 |
| No.33 Colour | £16.63 |
| No.34 Black  | £20.54 |
| No.35 Colour | £24.46 |
| No.36 Black  | £16.63 |
| No.37 Colour | £18.58 |
| No.43 Colour | £21.52 |
| No.44 Black  | £17.61 |

Many more in stock!

#### Brother Compatibles

|                       |        |
|-----------------------|--------|
| LC900 Black           | £3.90  |
| LC900 CMY             | £2.92  |
| LC900 Set of 4        | £11.73 |
| LC970 Black           | £3.90  |
| LC970 CMY             | £2.92  |
| LC970 Set of 4        | £11.73 |
| LC1000 Black          | £3.90  |
| LC1000 CMY            | £2.92  |
| LC1000 Set of 4       | £11.73 |
| LC980 / 1100 Black    | £3.90  |
| LC980 / 1100 CMY      | £2.92  |
| LC980 / 1100 Set of 4 | £11.73 |

Brother originals also in stock!

#### Kodak Original Ink / Paper

|                               |        |
|-------------------------------|--------|
| PH40 Printer/Dock Ink/Paper   | £13.70 |
| G550 Printer/Dock G Ink/Paper | £13.70 |
| ESP Black Series 10 Ink       | £6.84  |
| ESP Colour Series 10 Ink      | £9.78  |
| ESP Black & Colour Ink        | £15.65 |

Many more in stock!

### PHOTOGRAPHIC PAPERS



As an **Ilford Pro Centre**, we stock the complete range of Ilford Galerie papers, including A2, 17, 24 and 44 inch rolls. Below is just a selection.

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| Smooth Gloss 290g, 7x5, 100 sheets               | £19.56 |
| Smooth Gloss 290g, A4, 25 +10 Free               | £9.78  |
| Smooth Gloss 290g, A4, 100                       | £29.35 |
| Smooth Gloss 290g, A3, 25 sheets                 | £20.54 |
| Smooth Pearl 290g, 6x4, 100 sheets               | £22.51 |
| Smooth Pearl 290g, 7x5, 100 sheets               | £14.67 |
| Smooth Pearl 290g, A4, 25 +10 Free               | £19.56 |
| Smooth Pearl 290g, A4, 100                       | £9.78  |
| Smooth Pearl 290g, A3, 25 sheets                 | £29.35 |
| Smooth Pearl 290g, A3, 25 sheets                 | £20.54 |
| Gold Fibre Silk 310g, A4, 10 sheets              | £22.51 |
| Gold Fibre Silk 310g, A4, 50 sheets              | £10.75 |
| Gold Fibre Silk 310g, A3, 10 sheets              | £34.25 |
| Gold Fibre Silk 310g, A3, 50 sheets              | £29.35 |
| Gold Fibre Silk 310g, A3, 50 sheets              | £74    |



# Lowering the Cost of Photography

Orders are shipped promptly by Royal Mail 1st class post, for which we charge just £1.72 per order. All prices include VAT, and a full VAT receipt is provided with every order. Payment accepted by credit/debit card, cheque or postal order. Orders accepted securely online, [www.premier-ink.co.uk](http://www.premier-ink.co.uk), over the telephone, 01926 339977, by post, or by visiting our showroom: Premier Ink & Photographic, Longfield Road, Sydenham Ind Estate, Leamington Spa, CV31 1XB.

01926 339977

[www.premier-ink.co.uk](http://www.premier-ink.co.uk)



# Premier

Ink & Photographic

## MEMORY

### Memory Cards

Below is just a small selection from the range of memory cards we stock from Sandisk, Kingston, Transcend, Fujifilm and Olympus. Full details on our website.



#### SD & SDHC

|                   |           |
|-------------------|-----------|
| 1GB Standard      | £3.90     |
| 2GB Standard      | £5.87     |
| 4GB SDHC Class 4  | £8.80     |
| 4GB SDHC Class 6  | £9.78     |
| 8GB SDHC Class 4  | £18.58    |
| 8GB SDHC Class 6  | £19.56    |
| 16GB SDHC Class 4 | £29.35    |
| 16GB SDHC Class 6 | £34.25    |
| 32GB SDHC Class 4 | £C.A.L.L. |

#### MicroSD & MicroSDHC

|               |       |
|---------------|-------|
| 1GB MicroSD   | £3.90 |
| 2GB MicroSD   | £5.87 |
| 4GB MicroSDHC | £8.80 |

#### Compact Flash

|                    |           |
|--------------------|-----------|
| 1GB Standard Speed | £9.78     |
| 1GB 133X 20MB/s    | £11.73    |
| 2GB Standard Speed | £12.71    |
| 2GB 133X 20MB/s    | £14.67    |
| 4GB Standard Speed | £14.67    |
| 4GB 133X 20MB/s    | £16.63    |
| 8GB Standard Speed | £19.56    |
| 8GB 133X 20MB/s    | £22.51    |
| 16GB 133X 20MB/s   | £37.99    |
| 32GB 133X 20MB/s   | £C.A.L.L. |

#### xD Picture Cards

|             |        |
|-------------|--------|
| 256MB Fuji  | £6.84  |
| 512MB Fuji  | £8.80  |
| 1GB Fuji    | £11.73 |
| 1GB Olympus | £12.71 |
| 2GB Fuji    | £17.61 |
| 2GB Olympus | £19.56 |

#### Memory Stick Pro Duo

|                |        |
|----------------|--------|
| 1GB MS Pro Duo | £11.73 |
| 2GB MS Pro Duo | £14.67 |
| 4GB MS Pro Duo | £22.51 |

#### Smart Media

|       |        |
|-------|--------|
| 128MB | £29.35 |
|-------|--------|

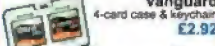
#### USB Pen Drives

|                    |           |
|--------------------|-----------|
| 1GB USB Pen Drive  | £4.99     |
| 2GB USB Pen Drive  | £6.84     |
| 4GB USB Pen Drive  | £8.80     |
| 8GB USB Pen Drive  | £17.61    |
| 16GB USB Pen Drive | £34.25    |
| 32GB USB Pen Drive | £C.A.L.L. |

Huge range of memory in stock!

### Memory Cases

A range of protective shock-resistant rubber lined memory card cases to keep your memory cards safe and secure.



Vanguard 4-card case & keychain £2.99

Kenro Memory Card & AA battery case £6.84

### Lithium

Eveready Ultimate Lithium - the longest lasting AA and AAA batteries in the world!



AA Lithium Pack of 4 £6.84

### Coin Cells & Other Batteries

|                        |       |
|------------------------|-------|
| CR123A Lithium Singles | £1.94 |
| CR2 Lithium Singles    | £1.94 |
| 2CR5 Lithium Singles   | £3.90 |
| CRV3 Lithium Singles   | £5.87 |
| CR1220, CR1632 Singles | £1.94 |
| CR2025, CR2032 Singles | £1.94 |

Full range of coin cells in stock

### AA & AAA Rechargeables

High-power Ni-MH rechargeable AA and AAA batteries, from Energizer, Duracell, and Sanyo.

|                         |       |
|-------------------------|-------|
| AA 1300mAh Pack of 4    | £2.50 |
| AA 1300mAh Plus Charger | £7.82 |
| AA 2500mAh Pack of 4    | £8.80 |
| AA 2500mAh Plus Charger | £9.78 |
| AA 2800mAh Pack of 4    | £8.80 |
| AAA 600mAh Pack of 4    | £2.50 |
| AAA 1000mAh Pack of 4   | £7.82 |

## BATTERIES

### Camera Batteries

A comprehensive range of rechargeable lithium batteries. Manufactured by respected independent battery manufacturers Energizer and Duracell. All batteries come with a 2 year guarantee.



|                          |        |
|--------------------------|--------|
| NB-1L for Canon          | £9.78  |
| NB-2L/LH for Canon       | £9.78  |
| NB-3L for Canon          | £9.78  |
| NB-4L for Canon          | £9.78  |
| NB-5L for Canon          | £9.78  |
| NB-6L for Canon          | £9.78  |
| NB-7L for Canon          | £9.78  |
| BP-511 for Canon         | £12.71 |
| LP-E5 for Canon          | £12.71 |
| NP20 for Canon           | £9.78  |
| NP40 for Canon           | £9.78  |
| NP60 for Canon           | £9.78  |
| NP80 for Canon           | £9.78  |
| NP100 for Canon          | £9.78  |
| NP120 for Canon          | £9.78  |
| NP140 for Canon          | £12.71 |
| NP150 for Canon          | £14.67 |
| BP-DC2 for Leica         | £9.78  |
| NP200 for Minolta        | £9.78  |
| NP400 for Minolta        | £12.71 |
| EN-EL1 for Nikon         | £9.78  |
| EN-EL2 for Nikon         | £9.78  |
| EN-EL3/3A for Nikon      | £9.78  |
| EN-EL3E for Nikon        | £15.65 |
| EN-EL5 for Nikon         | £9.78  |
| EN-EL7 for Nikon         | £19.56 |
| EN-EL8 for Nikon         | £9.78  |
| EN-EL9 for Nikon         | £12.71 |
| EN-EL10 for Nikon        | £9.78  |
| EN-EL11 for Nikon        | £9.78  |
| EN-EL12 for Nikon        | £9.78  |
| LI08B/12B for Olympus    | £9.78  |
| LI40B/42B for Olympus    | £9.78  |
| LI50B for Olympus        | £9.78  |
| BLM-1 for Olympus        | £12.71 |
| BLS-1 for Olympus        | £12.71 |
| CGA-S005 for Panasonic   | £9.78  |
| CGR-S006 for Panasonic   | £9.78  |
| CGA-S007 for Panasonic   | £9.78  |
| CGA-S008 for Panasonic   | £9.78  |
| BCG10E for Panasonic TZ7 | £19.56 |
| BLB13 for Panasonic G1   | £19.56 |
| D-L12 for Pentax         | £9.78  |
| D-L17 for Pentax         | £9.78  |
| D-L18 for Pentax         | £9.78  |
| D-L150 for Pentax        | £12.71 |
| D-L178 for Pentax        | £9.78  |
| DB60 for Ricoh           | £9.78  |
| DB70 for Ricoh           | £9.78  |
| SLM-11370 for Samsung    | £9.78  |
| SLM-1674 for Samsung     | £12.71 |
| BD-1 for Sony            | £19.56 |
| BG-1 for Sony            | £19.56 |
| NP-FM55H for Sony        | £19.56 |
| NP-FM500H for Sony       | £22.51 |

Many more batteries in stock!

### Li-Ion Battery Charger

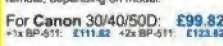
Compact and lightweight battery charger, suitable for digital camera batteries, such as those listed above. Complete with UK mains plug and a handy 12V car lead.



£14.67

### Battery Grips

A range of professional battery grips from Hahnel. All can take two Li-ion batteries for double the battery power. AA battery compartment and/or vertical shutter release and/or infrared remote, depending on model.



For Canon 30/40/50D: £99.82

-1x BP-511: £111.82 -2x BP-511: £123.82

For Canon 350/400D: £59.69

-1x NB-2L: £68.69 -2x NB-2L: £77.69

For Canon 450/1000D: £69.48

-1x LP-E6: £81.48 -2x LP-E6: £93.48

For Nikon D40/D60: £59.69

-1x EN-EL3E: £71.69 -2x EN-EL3E: £83.69

For Nikon D80/D90: £89.05

-1x EN-EL3E: £104.05 -2x EN-EL3E: £119.05

For Nikon D200: £109.61

-1x EN-EL3E: £124.61 -2x EN-EL3E: £139.61

For Nikon D300/D700: £138.97

-1x EN-EL3E: £153.97 -2x EN-EL3E: £168.97

For Sony A200/A350: £74.37

-1x EN-EL3E: £89.37 -2x EN-EL3E: £104.37

Many more in stock!

## SQUARE FILTERS

### P-Type Filter System

The P-Type square/rectangular filter system consists of three parts:

- 1) An adapter ring that screws onto the front of your lens
- 2) A filter holder clips onto the ring
- 3) One or more P-Type (84mm wide) filters



#### P-Type Adapter Rings

|                   |       |
|-------------------|-------|
| 49mm Adapter Ring | £4.89 |
| 52mm Adapter Ring | £4.89 |
| 55mm Adapter Ring | £4.89 |
| 58mm Adapter Ring | £4.89 |
| 62mm Adapter Ring | £4.89 |
| 67mm Adapter Ring | £4.89 |
| 72mm Adapter Ring | £4.89 |
| 77mm Adapter Ring | £4.89 |
| 82mm Adapter Ring | £4.89 |

#### P-Type Holders

|                     |        |
|---------------------|--------|
| Holder Standard     | £5.87  |
| Holder Wide Angle   | £9.78  |
| Hood Modular        | £9.78  |
| Hood Bellows        | £34.25 |
| A to P Type Adapter | £9.78  |

#### P-Type Bellows Hood

A new design of Bellows Hood that slots into the front slot of a standard P-Type Holder.



£34.25

#### P-Type Filter Wallet

A smooth cushioned filter wallet, to protect and store up to 8 P-Type filters.



£9.78

We also stock Z-Pro (100mm) and A-Type (67mm) filters, holders and adapter rings

#### P-Type Neutral Density Filter Kit

Neutral Density filters have a multitude of uses - from increasing detail in landscapes and reducing over-exposed skies, to creating stunning motion scenes by reducing shutter speeds. Here's a kit which includes all the popular ND filters, and everything you need to get started! The kit contains: 1x ND2 Filter, 1x ND4 Soft Graduated Filter, 1x ND4 Filter, 1x ND4 Soft Graduated Filter, 1x P-Type Filter Holder, 1x P-Type Adapter Ring of your choice (49-82mm). Just £39.95 - saving £8 on the individual prices.

£39.95

## LENS HOODS & CAPS

### Bayonet-Fit Lens Hoods



A comprehensive range of aftermarket matt black bayonet-fit lens hoods compatible with Canon and Nikon lenses.

|                            |        |
|----------------------------|--------|
| ES-62 Canon 50/1.8         | £12.71 |
| ES-7111 Canon 50/1.4       | £12.71 |
| ET-60 Canon 75-300/4-5.6   | £12.71 |
| ET-65B Canon 70-300/4-5.6  | £12.71 |
| ET-6511 Canon 85/1.8       | £13.70 |
| ET-67 Canon 100/2.8 Macro  | £13.70 |
| ET-67B Canon 60/2.8        | £13.70 |
| EW-60C Canon 18-55         | £9.78  |
| EW-63B Canon 28-105        | £12.71 |
| EW-73B Canon 17-85         | £13.70 |
| EW-78B Canon 28-135        | £13.70 |
| EW-78D Canon 18-200        | £12.71 |
| EW-83E Canon 17-40/4.0     | £14.67 |
| EW-83F Canon 24-70/2.8     | £17.61 |
| EW-83J Canon 17-55/2.8     | £15.65 |
| HB-25 Nikon 24-85, 24-120  | £14.67 |
| HB-32 Nikon 18-105, 18-135 | £9.78  |
| HB-45 Nikon 18-55          | £9.78  |

Many more sizes in stock!

### Screw-Fit Lens Hoods

|                        |        |
|------------------------|--------|
| 52mm Shaped Petal Hood | £6.84  |
| 55mm Shaped Petal Hood | £6.84  |
| 58mm Shaped Petal Hood | £6.84  |
| 62mm Shaped Petal Hood | £7.82  |
| 67mm Shaped Petal Hood | £7.82  |
| 72mm Shaped Petal Hood | £9.78  |
| 77mm Shaped Petal Hood | £9.78  |
| 82mm Shaped Petal Hood | £11.73 |
| 46mm Rubber Hood       | £3.90  |
| 52mm Rubber Hood       | £3.90  |
| 55mm Rubber Hood       | £3.90  |
| 58mm Rubber Hood       | £3.90  |
| 62mm Rubber Hood       | £4.89  |
| 67mm Rubber Hood       | £4.89  |
| 72mm Rubber Hood       | £5.87  |
| 77mm Rubber Hood       | £5.87  |

### Lens Caps

|  |            |
|--|------------|
| 30mm, 37mm, 40mm, 43mm, 46mm, 49mm, 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm, 82mm, 86mm, 95mm | £3.90 each |
|--|------------|

We also stock a range of body caps and rear lens caps for Canon, Nikon, Olympus, Sony, Pentax, etc

## SCREW-TYPE FILTERS

### KOOD

Japanese Optical Glass Filters  
Coated to reduce lens flare and reflections.



#### UV / Haze Filters

Used both to protect the lens of your camera, and to absorb ultraviolet rays that can cause photos to appear hazy.

|                |        |
|----------------|--------|
| 46mm UV / Haze | £5.87  |
| 52mm UV / Haze | £5.87  |
| 55mm UV / Haze | £6.84  |
| 58mm UV / Haze | £7.82  |
| 62mm UV / Haze | £8.80  |
| 67mm UV / Haze | £9.78  |
| 72mm UV / Haze | £11.73 |
| 77mm UV / Haze | £14.67 |
| 82mm UV / Haze | £17.61 |
| 86mm UV / Haze | £22.51 |

More sizes in stock, from 24 to 86mm!

#### Circular Polarising Filters

These remove reflections from surfaces such as glass and water, as well as increasing contrast and saturation.

|                          |        |
|--------------------------|--------|
| 46mm Circular Polarising | £17.61 |
| 52mm Circular Polarising | £17.61 |
| 55mm Circular Polarising | £19.56 |
| 58mm Circular Polarising | £21.52 |
| 62mm Circular Polarising | £24.46 |
| 67mm Circular Polarising | £27.39 |
| 72mm Circular Polarising | £34.25 |
| 77mm Circular Polarising | £39.13 |
| 82mm Circular Polarising | £44.03 |
| 86mm Circular Polarising | £48.93 |

More sizes in stock, from 27 to 86mm!

#### Skylight Filters

These work in a very similar way to a UV filter, but have a pinkish tinge to add a gentle warmth to your photos.

|               |        |
|---------------|--------|
| 46mm Skylight | £6.84  |
| 52mm Skylight | £6.84  |
| 55mm Skylight | £7.82  |
| 58mm Skylight | £8.80  |
| 62mm Skylight | £9.78  |
| 67mm Skylight | £10.75 |
| 72mm Skylight | £12.71 |
| 77mm Skylight | £15.65 |
| 82mm Skylight | £18.58 |
| 86mm Skylight | £24.46 |

More sizes in stock, from 30 to 105mm!

#### Neutral Density Filters

These reduce the amount of light passing through the lens, reducing shutter speed without affecting colour contrast or balance.

|                                    |        |
|------------------------------------|--------|
| 52mm ND4 (2 stop) and ND8 (4 stop) | £10.75 |
| 55mm ND4 / ND8                     | £12.71 |
| 58mm ND4 / ND8                     | £14.67 |
| 62mm ND4 / ND8                     | £16.63 |
| 67mm ND4 / ND8                     | £19.56 |
| 72mm ND4 / ND8                     | £24.46 |
| 77mm ND4 / ND8                     | £29.35 |

More sizes in stock, from 37 to 82mm!

#### Starburst Filters

These add a dramatic star cross filter to bright light sources, such as streetlights. They also give a slight soft focus effect.

|                              |        |
|------------------------------|--------|
| 52mm Starburst x4/8/16, each | £11.73 |
| 58mm Starburst x4/8/16, each | £15.65 |
| 67mm Starburst x4/8/16, each | £21.52 |
| 72mm Starburst x4/8/16, each | £27.39 |

We stock many other filter types, including multi-image, log, split-field, red, orange, yellow and green filters in a range of sizes.

## MARUMI

Marumi Digital High Grade (DHG) filters have an extra-thin, low-profile frame, to help prevent vignetting. Multiple digital anti-reflection coatings and black-rimmed Japanese optical glass, combined with a satin frame, further reduce unwanted reflections, ghosting and flare.

### DHG Lens Protection

|                       |        |
|-----------------------|--------|
| 52mm DHG Lens Protect | £11.73 |
| 55mm DHG Lens Protect | £12.71 |
| 58mm DHG Lens Protect | £13.70 |
| 62mm DHG Lens Protect | £14.67 |
| 67mm DHG Lens Protect | £16.63 |
| 72mm DHG Lens Protect | £19.56 |
| 77mm DHG Lens Protect | £22.51 |
| 82mm DHG Lens Protect | £27.39 |

### DHG Circular Polarisers

|                           |        |
|---------------------------|--------|
| 52mm DHG Circ. Polarizing | £32.29 |
| 55mm DHG Circ. Polarizing | £35.22 |
| 58mm DHG Circ. Polarizing | £37.18 |
| 62mm DHG Circ. Polarizing | £42.08 |
| 67mm DHG Circ. Polarizing | £45.01 |
| 72mm DHG Circ. Polarizing | £51.86 |
| 77mm DHG Circ. Polarizing | £56.76 |
| 82mm DHG Circ. Polarizing | £69.48 |

## STEPPING RINGS

Stepping rings are used to "step-up" or "step-down" from one filter thread size to another.



|         |         |         |         |
|---------|---------|---------|---------|
| 27-30mm | 52-46mm | 58-55mm | 67-58mm |
| 34-37mm | 52-55mm | 58-62mm | 67-62mm |
| 37-43mm | 52-58mm | 58-67mm | 67-77mm |
| 43-46mm | 55-52mm | 62-58mm | 72-67mm |
| 46-49mm | 55-58mm | 62-67mm | 72-77mm |
| 49-52mm | 58-52mm | 62-72mm | 77-72mm |





# Lowering the Cost of Photography

We are a small family owned and run company, specialising in photographic consumables. We are based in Leamington Spa, in the heart of Warwickshire - if you are passing, or live close by, please pop into our shop, and meet Judy - our office dog!

Premier Ink & Photographic, Longfield Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire. CV31 1XB.

01926 339977

www.premier-ink.co.uk

## FLASH DIFFUSERS

### Inverted Dome Pro Flash Diffuser Set

Comprising a clear vinyl body that simply slips onto the head of the flash gun, and an inverted frosted dome that clips onto the front.

In addition to diffusing the flash directly hitting your subject, the inverted dome spreads light evenly through the sides of the clear vinyl body, lighting up the surrounding environment, thus producing a natural soft daylight effect. Especially useful for shooting interiors and portraits, and is a firm favourite with wedding photographers.

Supplied with four domes - neutral, yellow, amber and blue, giving you a full range of natural, cool, or warm-up tones. Available in four sizes, to fit the heads of most flash guns.

Size 1: 62-65 x 39-42mm Nikon SB600, SB800, etc  
Size 2: 64-68 x 35-38mm Canon 430EX, 430EX II, etc  
Size 3: 68-72 x 46-49mm Nikon SB600, 27, 28, etc  
Size 4: 73-77 x 46-49mm Canon 580EX, 580EX II, etc

£29.95

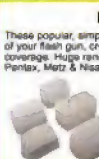


### Bounce Flash Diffuser

These popular, simple opaque plastic diffusers simply fit onto the front of your flash gun, creating a diffused but still even coverage. Huge range available for Canon, Nikon, Sony, Olympus, Pentax, Metz & Nissin. Below is just a sample of the range available:

380: (for Canon 380EX)  
420: (for Canon 420EX)  
430: (for Canon 430EX, 430EX II)  
580: (for Canon 580EX, 580EX II)  
600: (for Nikon SB600)  
800: (for Nikon SB800)  
900: (for Nikon SB900)

£10.95



### Camera Built-in Flash Diffuser Set

A flash diffuser that slots onto the camera housing, and mounts a contoured diffuser plate in front of the built-in flash on SLR cameras. Not compatible with Sony cameras.

Height adjustable, and supplied with neutral, amber, and blue diffuser plates.

£9.95



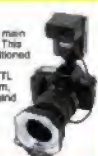
## RING FLASH

### Marumi DRF14 Ring Flash

The highly-acclaimed Marumi Ring Flash is a true ring flash - it consists of a main control unit and a separate ring light which connects to the lens filter thread. This unit is ideal for Macro/Close-up photography due to the flash being positioned directly between the camera and the subject for even illumination. The flash has a 14mm/ISO100 guide number and features auto TTL exposure. The lens mount is 52mm, step-up rings are also supplied for 55mm, 58mm, 62mm and 67mm lenses. Available in Nikon Fit, with TTL metering and Canon Fit, with E-TTL and E-TTL II metering.

In a glowing report in the June 2009 issue of Photo Plus magazine, the Marumi Ring Flash was described as "great value" and was ranked above two other ring flash units costing in the region of £300!

£105.95



## FLASH GUNS

### Nissin SPECIAL OFFER

**TWENTY FREE AA BATTERIES**  
...worth £15 with every Nissin Flash Gun!

#### Nissin Di466 Speedlite (GN:33)

An advanced versatile flash gun, with a guide number of 33m/ISO100, 45m/ISO200 at 1/160sec. Featuring the latest TTL flash control technology, specification includes adjustable bounce flash head, wide angle diffuser and catch light reflector, wireless remote slave flash on manual mode and energy saving auto off circuit.

Available in Nikon Fit, with TTL metering and Canon Fit, with E-TTL and E-TTL II metering.

RRP: £139.94 Save: £50.99

£88.95



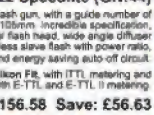
**TWENTY FREE AA BATTERIES**

#### Nissin Di622 Speedlite (GN:44)

An impressively powerful flash gun, with a guide number of 44m/ISO100, 60m/ISO200 at 1/160sec. Incredible specification, including bounce and swivel flash head, wide angle diffuser and catch light reflector, wireless remote slave flash with power ratio, active AF assist light and energy saving auto off circuit.

Available in Nikon Fit, with TTL metering and Canon Fit, with E-TTL and E-TTL II metering.

RRP: £156.58 Save: £56.63



**TWENTY FREE AA BATTERIES**

#### Nissin Di866 Speedlite (GN:60)

The Nissin Di866 Professional Flashgun is an extremely powerful flashgun (guide number of 60m/ISO100) with an easy to read LCD panel, making this advanced unit very easy to use. Designed for use with Canon and Nikon digital SLRs, the Nissin Di866 fully supports Canon's E-TTL and Nikon's TTL functionality with the option for full manual overrides. Covering a range of focal lengths from 24-105mm and including a secondary fire in flash unit, the Nissin Di866 is the flashgun professionals have been waiting for. A built in USB port means upgrades can be downloaded via an internet connection.

Available in Nikon Fit, with TTL metering and Canon Fit, with E-TTL and E-TTL II metering.

RRP: £249.95



**TWENTY FREE AA BATTERIES**

#### Nissin SC-01 Universal Flash Shoe Cord

An incredibly useful Universal Flash Shoe Cord, with 1.5m coiled cable, allowing off camera flash photography. It has a multiple pin configuration, allowing it to retain full TTL compatibility between camera and flash on Canon, Nikon, Fujifilm, Pentax and Samsung DSLRs. The TTL shoe which fits to the main camera body features a secondary hot shoe enabling you to attach 2 flash units, one on top of the camera and another off to the side.

£47.95



### Metz

We stock Metz flash guns for Canon, Nikon, Sony, Samsung, Olympus and Pentax

#### 35 AF-4

Guide Number: 36m / ISO100

£72.95

#### 48 AF-1

Guide Number: 48m / ISO100

£175.95

#### 58 AF-1

Guide Number: 58m / ISO100

£289.95



## VANGUARD

### Vanguard Peking Shoulder Bag

Shoulder bags, with separate carrying handle and shoulder strap. Capable of carrying most DSLRs with kit lens attached. Two separate compartments keep your accessories safe, tidy and well protected. Phenomenal value.

#### Peking 17

External Dimensions: 20.0 x 17.0 x 14.0cm

Internal Dimensions: 17.5 x 10.0 x 8.0cm

#### Peking 21

External Dimensions: 29.0 x 22.0 x 17.0cm

Internal Dimensions: 21.0 x 15.0 x 11.0cm

#### Peking 25

External Dimensions: 34.0 x 23.0 x 19.0cm

Internal Dimensions: 25.0 x 17.0 x 12.0cm

£15.95

£18.95

£21.95

### Vanguard Pampas Sling Backpack

A range of innovative sling backpacks, with day pack at the top and separate camera section at the bottom. The bag sits comfortably on your back, and when needed, it revolves round to your front for easy access to your camera, without having to take the bag off.

#### Pampas 37

External Dimensions: 34.0 x 21.5 x 21.5cm

Internal Dimensions: 17.0 x 19.0 x 13.0cm

#### Pampas 47

External Dimensions: 42.0 x 21.5 x 21.5cm

Internal Dimensions: 25.0 x 19.0 x 13.0cm

#### Pampas 57

External Dimensions: 44.5 x 24.0 x 22.0cm

Internal Dimensions: 30.0 x 22.0 x 15.0cm

£29.95

£35.95

£39.95

## LIGHT METERS

## SEKONIC



**Sekonic L208 TwinMaster**  
Analog, incident and reflected, ambient light only

£69.95



**Sekonic L306S FlashMate**  
Digital, incident and reflected, ambient and flash light

£129.95



**Sekonic L358 FlashMaster**  
Digital, incident and reflected, simultaneous ambient and flash light, rotating head

£209.95

We are an official Authorised Sekonic Demonstration Centre, and have the Sekonic range on display and available for demonstration in our showroom in Leamington Spa.



**Sekonic L398A Deluxe III**

£132.95



**Sekonic L758DR DigitalMaster**

£439.95

## Billingham SPECIALISTS

We are proud to announce that we have been appointed as an Authorised Billingham Specialist Centre.

Billingham's exquisite range of hand-made camera bags are now on display in our recently-extended showroom in Leamington Spa. If you are considering investing in a professional camera bag that will protect your equipment for many years to come, we strongly recommend first-hand inspection of the Billingham range - only then can Billingham's preoccupation with excellence and attention to detail be fully appreciated.

### The Hadley Original

£99.95

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### The Billingham 5 Series

£179.95

£189.95

£214.95

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### The Hadley Original

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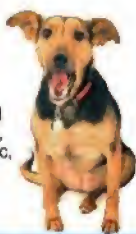
£99.95



# Lowering the Cost of Photography

Orders are shipped promptly by Royal Mail 1st class post, for which we charge just £1.72 per order. All prices include VAT at 15%, and a full VAT receipt is provided with every order. Payment accepted by credit/debit card, cheque or postal order. Orders accepted securely online, [www.premier-ink.co.uk](http://www.premier-ink.co.uk), over the telephone, 01926 339977, by post, or by visiting our new showroom: Premier Ink & Photographic, Longfield Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire. CV31 1XB.

01926 339977 [www.premier-ink.co.uk](http://www.premier-ink.co.uk)



# Premier

Ink & Photographic

## TRIPODS, MONOPODS & HEADS

**Manfrotto**  
Exquisite Italian design, beautifully engineered.  
The unique Q90 system allows the central column to be positioned vertically or horizontally.

### MANFROTTO TRIPODS

|  |   |
|--|---|
| <b>190XPROB Tripod</b><br>Aluminium 3-section legs, Q90 column<br>Weight: 1.85kg<br>Load: 5.0kg<br>Folded: 57cm<br>Height: 146cm<br>£92.95   | <b>055XPROB Tripod</b><br>Aluminium 3-section legs, Q90 column<br>Weight: 2.40kg<br>Load: 7.0kg<br>Folded: 65cm<br>Height: 178cm<br>£115.95   |
| <b>190XB Tripod</b><br>Aluminium 3-section legs, standard column<br>Weight: 1.80kg<br>Load: 5.0kg<br>Folded: 53cm<br>Height: 146cm<br>£87.95 | <b>055XB Tripod</b><br>Aluminium 3-section legs, standard column<br>Weight: 2.30kg<br>Load: 7.0kg<br>Folded: 61cm<br>Height: 178cm<br>£107.95 |
| <b>190CXPRO3</b><br>Carbon Fibre 3-section legs, Q90 column<br>Weight: 1.29kg<br>Load: 5.0kg<br>Folded: 56cm<br>Height: 146cm<br>£209.95     | <b>190CXPRO4</b><br>Carbon Fibre 4-section legs, Q90 column<br>Weight: 1.34kg<br>Load: 5.0kg<br>Folded: 56cm<br>Height: 146cm<br>£219.95      |
| <b>055CXPRO3</b><br>Carbon Fibre 3-section legs, Q90 column<br>Weight: 1.65kg<br>Load: 8.0kg<br>Folded: 65cm<br>Height: 175cm<br>£249.95     | <b>055CXPRO4</b><br>Carbon Fibre 4-section legs, Q90 column<br>Weight: 1.70kg<br>Load: 8.0kg<br>Folded: 64cm<br>Height: 170cm<br>£259.95      |

### MANFROTTO MONOPODS

|   |   |   |
|---|---|---|
| <b>679B Monopod</b><br>Aluminium 3-section<br>Weight: 0.80kg<br>Load: 10.0kg<br>Folded: 64cm<br>Height: 162cm<br>£34.95 | <b>680B Monopod</b><br>Aluminium 4-section<br>Weight: 0.83kg<br>Load: 10.0kg<br>Folded: 51cm<br>Height: 154cm<br>£41.95     | <b>681B Monopod</b><br>Aluminium 3-section<br>Weight: 0.78kg<br>Load: 12.0kg<br>Folded: 67cm<br>Height: 161cm<br>£42.95     |
| <b>776B Monopod</b><br>Aluminium 4-section<br>Weight: 0.33kg<br>Load: 4.0kg<br>Folded: 48cm<br>Height: 152cm<br>£29.95  | <b>694CX Monopod</b><br>Carbon Fibre 4-section<br>Weight: 0.59kg<br>Load: 5.0kg<br>Folded: 54cm<br>Height: 165cm<br>£119.95 | <b>695CX Monopod</b><br>Carbon Fibre 5-section<br>Weight: 0.60kg<br>Load: 5.0kg<br>Folded: 47cm<br>Height: 160cm<br>£129.95 |

### MANFROTTO HEADS

|  |  |  |
|--|--|--|
| <b>482 Ball Head</b><br>non quick-release 1/4" thread<br>Weight: 0.12kg<br>Load: 2.0kg<br>£23.95     | <b>234 Tilt Head</b><br>Ideal for monopods<br>Weight: 0.27kg<br>Load: 2.5kg<br>£14.95                | <b>234RC Tilt Head</b><br>with RC2 quick release<br>Weight: 0.27kg<br>Load: 2.5kg<br>£22.95                      |
| <b>484RC2 Ball Head</b><br>with RC2 quick release<br>Weight: 0.32kg<br>Load: 4.0kg<br>£38.95         | <b>486RC2 Ball Head</b><br>with RC2 quick release<br>Weight: 0.46kg<br>Load: 6.0kg<br>£46.95         | <b>488RC2 Ball Head</b><br>with RC2 quick release<br>Weight: 0.67kg<br>Load: 8.0kg<br>£69.95                     |
| <b>804RC2 Pan / Tilt</b><br>with RC2 quick release system<br>Weight: 0.79kg<br>Load: 4.0kg<br>£50.95 | <b>808RC2 Pan / Tilt</b><br>with RC2 quick release system<br>Weight: 1.42kg<br>Load: 8.0kg<br>£89.95 | <b>200PL14 Plate</b><br>space quick release plate for heads using the RC2 system<br>£11.95                       |
| <b>056 3D Head</b><br>non quick-release 1/4" thread<br>Weight: 0.50kg<br>Load: 3.0kg<br>£23.95       | <b>460MG 3D Head</b><br>magnesium, with quick release<br>Weight: 0.43kg<br>Load: 3.0kg<br>£61.95     | This is just a small selection of the Manfrotto range now available to try in our new showroom in Leamington Spa |

## SHUTTER RELEASES

### hähnel

#### Hähnel Wireless Pro Remote Shutter Release

Ultra high frequency 433MHz professional radio remote control, with a range of up to 80 metres! Autofocus, Bulb Function and Continuous Shooting functions. 4 digit code selector allows individual codes to be set to eliminate interference from other sources. Each kit contains a wireless transmitter, a receiver with camera shoe and connectors to allow it to plug into your camera, plus a short distance cable operated shutter release.

Available for Canon, Nikon, Sony, Olympus, Pentax and Samsung.

£47.95

#### Hähnel Cable Remote Shutter Release

An innovative cable remote control for digital SLRs, with interchangeable camera connectors and a 2 metre extension lead, giving the choice of shutter release from 0.8 or 2.8 metres. Autofocus, Bulb Function and Continuous Shooting functions.

£19.95

Available for Canon, Nikon, Sony, Olympus, and Pentax.

### Seculine

#### Seculine Twin-1 ISR Interval Shutter Release

The new Seculine Twin-1 ISR is a wired interval shutter release with a built in timer and large, clear, easy to read LCD display. Easy variable interval time setting - from 1 sec to 99 hours, 99 minutes and 99 seconds. Can be set to take up to 9999 shots in one session. Multiple exposure option. Convenient navigation buttons. Shutter lock for bulb shooting. Half shutter release control. Intuitive beep sound indication. Available for Canon, Nikon, Sony, Fuji, Pentax and Samsung.

£49.95



The 2009 TIPA "Best Accessory" award-winning Vanguard AltaPRO tripod range is set to revolutionise the way you think about tripods!

Unlike traditional tripods, the AltaPRO's Multi-Angle-Central-Column (MACC) allows the user to position the hexagonal central column at ANY angle from 0 to 130 degrees, without removing it from the tripod, while also allowing it to rotate a full 360 degrees! The clever Instant-Swivel-Stop-and-Lock (ISL) mechanism allows photographers to securely reposition the central column in one simple movement, in a matter of seconds.

Other features include: Independent height and angle adjustable legs, patented magnesium die-cast canopy, spiked and rubber feet, non-slip rubberised foam leg warmers, anti-shock column ring - these are true professional specification tripods!



£119.95

### VANGUARD TRIPODS

|   |   |
|---|---|
| <b>AltaPro 263A Tripod</b><br>Aluminium 3-section legs, magnesium canopy, Multi-Angle-Central-Column<br>Weight: 2.05kg<br>Load: 7.0kg<br>Folded: 63cm<br>Height: 169cm<br>£119.95 | <b>AltaPro 264A Tripod</b><br>Aluminium 4-section legs, magnesium canopy, Multi-Angle-Central-Column<br>Weight: 2.10kg<br>Load: 7.0kg<br>Folded: 53cm<br>Height: 159cm<br>£129.95 |
| <b>AltaPlus 263A Tripod</b><br>Aluminium 3-section legs, magnesium canopy, standard central column<br>Weight: 1.59kg<br>Load: 5.0kg<br>Folded: 63cm<br>Height: 181cm<br>£89.95    | <b>AltaPlus 264A Tripod</b><br>Aluminium 4-section legs, magnesium canopy, standard central column<br>Weight: 1.64kg<br>Load: 5.0kg<br>Folded: 53cm<br>Height: 171cm<br>£99.95    |
| <b>AltaPlus 233A</b><br>Aluminium 3-section legs, standard column<br>Weight: 1.21kg<br>Load: 3.0kg<br>Folded: 52cm<br>Height: 142cm<br>£54.95                                     | <b>AltaPlus 235A</b><br>Aluminium 5-section legs, standard column<br>Weight: 1.17kg<br>Load: 3.0kg<br>Folded: 40cm<br>Height: 122cm<br>£74.95                                     |
| <b>AltaPlus 224C</b><br>Carbon Fibre 4-section legs, standard column<br>Weight: 0.92kg<br>Load: 3.0kg<br>Folded: 41cm<br>Height: 125cm<br>£179.95                                 | <b>AltaPlus 254C</b><br>Carbon Fibre 4-section legs, standard column<br>Weight: 1.24kg<br>Load: 5.0kg<br>Folded: 41cm<br>Height: 153cm<br>£199.95                                 |

### VANGUARD HEADS

|  |  |  |
|--|--|--|
| <b>SBH30 Ball Head</b><br>Lightweight magnesium alloy, single adjuster knob, 2 spirit levels, quick release plate<br>Weight: 0.22kg<br>Load: 5.0kg<br>£42.95 | <b>SBH50 Ball Head</b><br>Lightweight magnesium alloy, single adjuster knob, 2 spirit levels, quick release plate<br>Weight: 0.25kg<br>Load: 6.0kg<br>£49.95 | <b>SBH100 Ball Head</b><br>Lightweight magnesium alloy, two adjuster knobs, 2 spirit levels, quick release plate<br>Weight: 0.39kg<br>Load: 10.0kg<br>£64.95 |
| <b>MONOPODS</b>  | <b>PH21 Pan / Tilt</b><br>2-way fluid head, magnesium, spirit level, quick release<br>Weight: 0.35kg<br>Load: 3.0kg<br>£34.95                                | <b>PH31 Pan / Tilt</b><br>2-way fluid head, magnesium, spirit level, quick release<br>Weight: 0.43kg<br>Load: 5.0kg<br>£54.95                                |
| <b>AP284 Monopod</b><br>Aluminium 4-section legs<br>Weight: 0.51kg<br>Load: 8.0kg<br>Folded: 51cm<br>Height: 157cm<br>£33.95                                 | <b>PH22 Pan / Tilt</b><br>3-way fluid head, magnesium, spirit level, quick release<br>Weight: 0.34kg<br>Load: 3.0kg<br>£34.95                                | <b>PH32 Pan / Tilt</b><br>3-way fluid head, magnesium, spirit level, quick release<br>Weight: 0.42kg<br>Load: 5.0kg<br>£54.95                                |
| <b>AP324 Monopod</b><br>Aluminium 4-section legs<br>Weight: 0.66kg<br>Load: 12.0kg<br>Folded: 57cm<br>Height: 166cm<br>£39.95                                | This is just a small selection of the Vanguard range now available to try in our new showroom in Leamington Spa  |  |

### KOOD

A range of sturdy, value-for-money Tripods, Monopods and Ball Heads.

### KOOD MONOPODS & TRIPODS

|  |   |  |
|--|---|--|
| <b>C324 Monopod</b><br>Aluminium 3-section<br>Weight: 0.57kg<br>Load: 8.0kg<br>Folded: 54cm<br>Height: 169cm<br>£78.95 | <b>A284 Tripod</b><br>Aluminium 4-section<br>Weight: 2.17kg<br>Load: 8.0kg<br>Folded: 56cm<br>Height: 154cm<br>£73.95 | <b>CF284 Tripod</b><br>Carbon Fibre 4-section<br>Weight: 1.69kg<br>Load: 8.0kg<br>Folded: 56cm<br>Height: 160cm<br>£197.95 |
|--|---|--|

### KOOD HEADS

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|--|--|---|
| <b>BH02 Ball Head</b><br>Quick release plate, spirit level, 360 degree rotation, triple control knobs<br>Weight: 0.21kg<br>Load: 6.0kg<br>£22.95 | <b>BH22 Ball Head</b><br>Sliding quick release plate, spirit level, 360 degree rotation, triple control knobs<br>Weight: 0.40kg<br>Load: 8.0kg<br>£31.95 | <b>BH52 Ball Head</b><br>Heavy duty sliding quick release plate, spirit level, 360 degree rotation, triple control knobs<br>Weight: 0.37kg<br>Load: 8.0kg<br>£33.95 |
| <b>BH05 Ball Head</b><br>Weight: 0.30kg<br>Load: 8.0kg<br>£26.95   | <b>BH25 Ball Head</b><br>Weight: 0.53kg<br>Load: 12.0kg<br>£35.95  | <b>BH55 Ball Head</b><br>Weight: 0.51kg<br>Load: 12.0kg<br>£38.95   |
| <b>BH08 Ball Head</b><br>Weight: 0.49kg<br>Load: 12.0kg<br>£29.95  | <b>BH28 Ball Head</b><br>Weight: 0.74kg<br>Load: 18.0kg<br>£45.95  | <b>BH58 Ball Head</b><br>Weight: 0.72kg<br>Load: 18.0kg<br>£49.95   |

### TrekTech

Trek Tech was formed in 2004 after the founders identified a market need based on personal outdoor experience - the need for a sturdy, lightweight, multi-purpose device with the functionality of both a tripod and trekking pole/hiking staff.

The result is the TrekPod, a lightweight, height-adjustable, spring-hiking staff, with a fully integrated tripod, and a magnetic quick-release ball head system called the MagMount.

The unique MagMount quick release system incorporates a Neodymium "super magnet" as the initial connection between the ball head and a steel quick-release plate, called a MagAdapter, that screws into the bottom of your camera. A safety clip that stores below the ball head securely locks your device to the MagMount ball head. Each MagMount ball head is supplied with two MagAdapter quick release plates.

#### TrekPod II - £69.95

A refined version of the original TrekPod, using aircraft-grade aluminium alloy, it comes complete with a MagMount ball head, weighs 765g, and is capable of supporting a camera system weighing up to 4kg. Maximum height in tripod mode of 146cm, and a maximum height in monopod mode of 158cm. The TrekPod II collapses down to 90cm.

#### TrekPod GO - £129.95

The TrekPod GO is a more compact than the TrekPod II, collapsing down to just 58cm, yet still expanding to the same maximum height as the TrekPod II. Supplied with a travel case, it is small enough to qualify as aircraft hand luggage. Weighing 794g including the MagMount ball head that comes as part of the package, it is able to support 4kg.

#### TrekPod XL - £259.95

The TrekPod XL is the top of the range TrekPod. Utilizing Carbon Fibre tubes, this is the lightest TrekPod ever, weighing in at just 480g, yet retaining the same dimensions as the TrekPod GO. It includes the larger MagMount PRO ball head.

#### MagMount

The original MagMount ball head. Weighing in at just 79g, it is capable of holding 4kg.

£24.95

#### MagMount STAR

The same size as a standard MagMount, with a Square Tooth Anti Rotation (STAR) connection surface between the ball head and the MagAdapter quick release plate. Weighing 79g, with a maximum load rating of 4kg.

£34.95

#### MagMount PRO

Utilising the same Square Tooth Anti Rotation system as the MagMount STAR, the MagMount PRO is a larger ball head, weighing 127g, and capable of holding an impressive 6kg.

£64.95

#### All MagMount ball heads come with two MagAdapter quick release plates. These are also available separately:

#### MagAdapter Light

£5.95

#### MagAdapter Heavy

£6.95

#### MagAdapter STAR

£9.95

### gorillapod

#### Gorillapod Original (GP1)

The original gorillapod, designed for compact cameras, available in grey, yellow, green, blue, red and pink.  
Weight: 0.04kg  
Load: 0.35kg  
£13.95

#### Gorillapod SLR (GP2)

An sturdier gorillapod, designed to take an SLR camera.  
Weight: 0.18kg Load: 0.7kg  
£29.95

#### Gorillapod SLR-ZOOM (GP3)

An even sturdier gorillapod, designed to take an SLR camera with zoom lens.  
Weight: 0.24kg Load: 3.0kg  
£34.95

#### Gorillapod FOCUS (GP8)

The Gorillapod Focus, designed for professionals, is the biggest and strongest Gorillapod yet, featuring machined, polished aluminium sockets.  
Weight: 0.5kg Load: 5.0kg  
£92.95

### TrekTech OPTERA

#### Trek Tech Optera 460

The Optera 460 is the next generation of portable tripods - capable of holding 5kg. The flexible legs are padded, covered in a soft yet hard-wearing water resistant fabric, and have integrated rubber feet for extra grip. They can be bent in practically any direction, allowing you to mount your camera on almost any object! The D-ring cord system attaches to the legs, ensuring that they will not play out. A camera is attached using Trek-Tech's clever magnetic quick release system, and two MagAdapter quick release plates are supplied.

£45.95

#### Trek Tech Optera 230

A smaller version of the above, with 230mm long legs.

£37.95



**CANON PROFESSIONAL STOCKIST PRO HIRE SERVICE AVAILABLE CANON PROFESSIONAL STOCKIST**

**DIGITAL SLR + KITS**

|                               |       |
|-------------------------------|-------|
| EOS 1DS MKIII body            | £5498 |
| EOS 1D MKIII body             | £2995 |
| EOS 5D MKII body              | £2077 |
| EOS 5D MKII + 24-105 F4 L     | £2697 |
| EOS 50D body                  | £815  |
| EOS 50D + 17-85 F4/5.6 IS U   | £1097 |
| EOS 50D + 18-200 F3.5/5.6     | £1198 |
| EOS 500D body                 | £589  |
| EOS 500D + 18-55 F3.5/5.6 IS  | £657  |
| EOS 500D + 18-200 F3.5/5.6 IS | £999  |
| EOS 40D body                  | £598  |
| EOS 40D + 17-85 F4/5.6 IS U   | £879  |
| EOS 450D body                 | £447  |
| EOS 450D + 18-55 F3.5/5.6 IS  | £529  |
| EOS 450D + 18-200 F3.5/5.6    | £846  |

**COMPACT CAMERA**

|                             |       |
|-----------------------------|-------|
| Powershot G10               | £399  |
| EF-S NON FULL FRAME LENSES  |       |
| 10-22 F3.5/4.5 USM          | £669  |
| 10-22 F3.5/4.5 USM DEMO     | £599  |
| 17-55 F2.8 IS USM           | £849  |
| 17-85 F4/5.6 IS USM unboxed | £339  |
| 18-200 F3.5/5.6 unboxed     | £429  |
| 55-250 F4/5.6 IS            | £219  |
| 60 F2.8 Macro USM           | £366  |
| EF LENSES                   |       |
| 14 F2.8 L USM MKII          | £1877 |
| 15 F2.8 Fisheye             | £599  |
| 16-35 F2.8 MKII L USM       | £1177 |
| 17 F4 TSE I                 | £2147 |
| 17-40 F4 USM L              | £818  |
| 20 F2.8 USM                 | £429  |
| 24 F1.4 L II USM            | £1379 |
| 24 F2.8                     | £1399 |
| 24 F3.5 L TSE MKII          | £1899 |
| 24 F3.5 L TSE MKI 1 only    | £1049 |
| 24-70 F2.8 L USM            | £1049 |
| 24-105 F4 L IS USM unboxed  | £899  |
| 28 F1.8 USM                 | £389  |

|                                |        |
|--------------------------------|--------|
| 100-400 F4.5/5.6 IS L USM      | £1349  |
| 135 F2 L USM                   | £877   |
| 180 F3.5 L USM Macro           | £1197  |
| 200 F2 IS                      | £4999  |
| 200 F2 IS DEMO                 | £3999  |
| 200 F2.8 II L USM              | £639   |
| 300 F2.8 IS L USM              | £3499  |
| 300 F4 L IS USM                | £1177  |
| 400 F2.8 IS L USM              | £6599  |
| 400 F4 DO IS L USM             | £5399  |
| 400 F5.6 L USM                 | £1119  |
| 500 F4 IS L USM                | £5449  |
| 600 F4 IS L USM                | £7299  |
| 800 F5.6 L IS                  | £10999 |
| Ext tube 12                    | £57    |
| Ext tube 25                    | £115   |
| 1.4x converter II              | £299   |
| 2x converter II                | £299   |
| <b>FLASH &amp; ACCESSORIES</b> |        |
| Tripod mount adaptor ring      |        |
| All(B) or All(W) each          | £39    |
| A/B                            | £119   |
| A/W                            | £119   |
| B/B                            | £139   |
| Angle finder C                 | £157   |
| 52mm drop-in polarising filter | £209   |
| Compact back cap CP-E4         | £127   |
| BGE2N Grip (20/30/40D)         | £139   |
| BG-E8 Grip (4500)              | £119   |
| BG-E8 Grip (5D MKII)           | £229   |
| BP-511A (20/30/40/5D batt)     | £54    |
| LP-E4 (1D MKIII batt)          | £89    |
| LP-E5 (450/500D batt)          | £45    |
| LP-E8 (5D MKII batt)           | £89    |
| NR-2LH (350/400D batt)         | £49    |
| NP-E3 (1D series batt)         | £89    |
| MR 14 EX ring flash            | £469   |
| MT 24 EX ring flash 1 only     | £649   |
| 40 EXII flash                  | £197   |
| 580 EXII flash                 | £369   |
| Speedlight bracket SB-E2       | £147   |
| Off camera shoe cord OC-E3     | £48    |
| LC5 wireless set               | £299   |
| ST2 Transmitter                | £147   |
| TC-80N3 remote                 | £99    |
| RS-60E3 remote                 | £25    |
| RS-80N3 remote                 | £44    |
| ET1000N3                       | £82    |

**NIKON PROFESSIONAL DEALER PRO HIRE SERVICE AVAILABLE NIKON PROFESSIONAL DEALER**

**DIGITAL SLR + KITS**

|                           |       |
|---------------------------|-------|
| D3X body                  | £4769 |
| D700 body                 | £1727 |
| D300 body                 | £1077 |
| D5000 body                | £539  |
| D5000 + 18-55 F3.5/5.6 VR | £627  |
| D5000 + 18-105 F3.5/5.6 G | £799  |
| D90 body                  | £669  |
| D90 + 18-105 F3.5/5.6 G   | £859  |
| D3000 + 18-55 F3.5/5.6 VR | £497  |
| D3000 + 18-105 F3.5/5.6 G | £609  |

**DIGITAL ONLY LENSES**

|                             |       |
|-----------------------------|-------|
| 10-16 F2.8 DX               | £489  |
| 10-24 F3.5/4.5 G AFS DX     | £689  |
| 12-24 F4 DX                 | £789  |
| 16-85 F3.5/5.6 AFS VR DX    | £439  |
| 17-55 F2.8 DX               | £897  |
| 18-55 F3.5/5.6 VR DX no box | £179  |
| 18-105 F3.5/5.6 G           | £1199 |
| ED VR unboxed               | £239  |
| 18-200 F3.5/5.6 VR DX II    | £729  |
| 18-200 F3.5/5.6 VR DX       | £517  |
| 55-200 F4.5/5.6 VR DX       | £249  |
| <b>LENSES</b>               |       |
| 14-24 F2.8 G ED AFS         | £1279 |
| 16 F2.8 AFD Fisheye         | £599  |
| 17-35 F2.8 D AFS            | £1549 |
| 20 F2.8 AFD                 | £1447 |
| 24 F3.5 D PCE 1 only        | £1299 |
| 24 F2.8 AFD                 | £1365 |
| 24-70 F2.8 G ED AFS         | £1269 |
| 24-85 F2.8/4                | £549  |

|                                |       |
|--------------------------------|-------|
| 200 F2 G VR                    | £2999 |
| 200-400 F4 VR                  | £4567 |
| 300 F2.8 AFS VR                | £3999 |
| 300 F4 AFS                     | £3979 |
| 400 F2.8 AFS VR                | £5477 |
| 500 F4 AFS VR                  | £5547 |
| 600 F4 AFS VR                  | £6899 |
| TC14EII/17EII/20EII conv ea    | £299  |
| <b>FLASH &amp; ACCESSORIES</b> |       |
| MBD10 Grip (D300)              | £255  |
| MBD80 grip (D80)               | £149  |
| MBD200 grip (D200)             | £149  |
| DR-5 or DR-6 angle finder      | £219  |
| EN-EL3E batt (D80/200/300)     | £65   |
| EN-EL4A battery (D2Xs)         | £116  |
| EN-EL9 battery (D40)           | £53   |
| EN-EL9A battery (D40)          | £45   |
| EH-5A or EH-6 AC adap each     | £97   |
| EH-5 AC adapter                | £75   |
| GP1 unit                       | £219  |
| SBR200 wireless rem S/Lite     | £220  |
| SBR1 ringflash                 | £399  |
| SBR1C ringflash/command        | £597  |
| SB-800 £238 SB-900 £327        |       |
| SC-28 TTL remote cord          | £66   |
| SC-29 TTL remote cord          | £77   |
| SD-9 batt pack                 | £119  |
| SD-8A batt pack                | £119  |
| SK-6A                          | £288  |
| SU-800 flash slave             | £349  |
| SU-800 flash slave no box      | £269  |
| MC-DC2 rem cont                | £32   |
| MC-3 Rem cont                  | £119  |
| MC30 Rem cont                  | £73   |
| MH-21 charger                  | £149  |
| MH-22 charger                  | £219  |
| ML3 mod charger                | £210  |
| N4 Wireless Trans D3/300       | £549  |
| Nikon Capture NX2              | £168  |
| Capture NX2 upgrade            | £104  |
| Nikon Capture NX               | £49   |

**SIGMA PRO LENS STOCKIST SIGMA PRO LENS STOCKIST**

Many lenses stocked in Pentax & Sony fits - please check availability - price may vary according to fit

|                          |      |
|--------------------------|------|
| 4.5 F2.8 EX DC CAF/NAF   | £669 |
| 8 F3.5 DG EX CAF/NAF     | £849 |
| 10 F2.8 EX DC CAF/NAF    | £539 |
| 10-20 F3.5 EX DC CAF/NAF | £539 |
| 10-20 F4/5.6 EX DC       | £399 |
| 12-24 F4.5/5.6           | £669 |
| 15 F2.8 DG Fisheye       | £579 |
| 17-70 F2.8/4.5 DC        | £249 |

|                            |      |
|----------------------------|------|
| 18-50 F2.8 EX DC Mac       | £319 |
| 18-125 F3.8/5.6 OS DC      | £244 |
| 18-200 F3.5/6.3 DC OS      | £283 |
| 18-250 F3.5/6.3 DC OS      | £479 |
| 24-70 F2.8 EX IF DG HSM    | £899 |
| 24-70 F2.8 EX DG CAF/NAF   | £419 |
| 28-300F3.5/6.3 DG          | £249 |
| 30 F1.4 EX DC CAF/NAF      | £369 |
| 50 F1.4 EX DG CAF/NAF      | £379 |
| 50 F2.8 EX DG Macro        | £249 |
| 50-150 F2.8 EX DC II       | £569 |
| 70-200 F2.8 DG mac II      | £649 |
| 70 F2.8 EX DG mac CAF/NAF  | £369 |
| 70-300 F4.5/5.6 APO DG mac | £149 |
| NIK AF not D40/60 etc      | £149 |
| 70-300 F4.5/5.6 APO DG mac | £174 |
| 70-300 F4.5/5.6 DG Macro   | £134 |

**SIGMA EX DG FILTERS**

| SIZE  | UV   | Circ Pol |
|-------|------|----------|
| 46mm  | £23  | £59      |
| 52mm  | £23  | £59      |
| 55mm  | £26  | £69      |
| 58mm  | £30  | £74      |
| 62mm  | £39  | £79      |
| 67mm  | £42  | £139     |
| 72mm  | £53  | £139     |
| 77mm  | £57  | £149     |
| 82mm  | £69  | £169     |
| 86mm  | £99  | £179     |
| 95mm  | £139 | £199     |
| 105mm | £179 | £269     |

**PENTAX**

**K7D body £1139**

|                           |                  |
|---------------------------|------------------|
| K20D body                 | £599             |
| K20D + 18-55              | £649             |
| KM + 18-55                | £369             |
| DBG2 grip . £179          | DBG3 grip . £179 |
| DBG-4 Grip                | £269             |
| 10-17 F3.5/4.5 P-DA ED IF | £449             |
| 12-24 F4 ED AL            | £899             |
| 16-50 F2.8 DA             | £798             |
| 17-70 F4 AL               | £499             |
| 18-55 F3.5/5.6            | £569             |
| 50-135 F2.8 DA ED IF      | £899             |

**lowepro**

|                |      |
|----------------|------|
| Compudaypack   | £55  |
| Orange Rover   | £59  |
| Grey           | £129 |
| Fastpack 200   | £49  |
| Fastpack 350   | £89  |
| Artic Blue     | £59  |
| Lens Trekker   | £49  |
| 600AW II       | £179 |
| Mini Mag AW    | £49  |
| Nature Trekker | £139 |
| Off Road       | £89  |

**GITZO**

**5 STAR DEALER**

|                 |      |
|-----------------|------|
| GT2330          | £189 |
| GT2331          | £219 |
| GT2340L         | £199 |
| GT2531EX        | £399 |
| GT2531LVL       | £449 |
| GT2540LVL       | £399 |
| GT2931EX        | £399 |
| GT2941          | £249 |
| GT2941LVL       | £319 |
| GT3530S         | £399 |
| GT3530LS        | £469 |
| GT5541LS        | £599 |
| GT1581OT kit    | £749 |
| GT1931C         | £219 |
| GT1940C         | £229 |
| G2220           | £179 |
| G1375M          | £125 |
| GH1780QR        | £169 |
| G2180QR         | £159 |
| G2272M          | £189 |
| GH2750          | £139 |
| GH2780QR        | £224 |
| GH3780QR        | £249 |
| <b>MONOPODS</b> |      |
| GM2340          | £89  |
| GM2341          | £99  |
| GM2541          | £154 |
| GM2940          | £125 |
| GM5561T         | £229 |
| <b>CLOTHING</b> |      |
| GA-140          | £229 |
| GA-151          | £299 |

**TAMRON**

**200-500 f5.6/3 DI**

|                          |      |
|--------------------------|------|
| 10-24 F3.5/4.5 DI II     | £399 |
| 14 F2.8 NAF one only     | £499 |
| 17-35 F2.8/4 DI PAF only | £149 |
| 18-200 F3.8/6.3 DI II    | £169 |
| 18-250 F3.5/6.3 XR DI II | £279 |
| 18-270 F3.5/6.3 DI II VC | £449 |

**tamrac**

**CARRYING SYSTEMS**

|                   |      |
|-------------------|------|
| Adventure         | £22  |
| Zoom 5            | £129 |
| 10                | £99  |
| 9                 | £99  |
| 75                | £99  |
| 7 Camo            | £69  |
| 6 Red or Cam      | £49  |
| 4 Grey or Red     | £28  |
| Aero 30 Bk or Red | £18  |
| Aero 50 Bk or Red | £28  |

**Billingham**

**BAGS**

|                |      |
|----------------|------|
| Hadley Digital | £99  |
| Hadley Small   | £114 |
| Hadley Pro     | £149 |
| 107            | £229 |
| 335            | £239 |
| 445            | £259 |
| Luggage Tally  | £13  |

**Waterproof Bags**

|               |     |
|---------------|-----|
| Seattle Sling | £99 |
| Seattle Solo  | £49 |

**CRUMPLER BAGS**

|                 |     |
|-----------------|-----|
| Muffin Top 2500 | £29 |
| Muffin Top 3000 | £29 |
| Muffin Top 4000 | £29 |
| Muffin Top 5500 | £48 |
| Muffin Top 7500 | £53 |
| New Delhi 230   | £69 |
| New Delhi 390   | £79 |
| New Delhi 510   | £99 |

**VISIBLE DUST - Sensor Cleaning**

|                                    |         |
|------------------------------------|---------|
| SD800 Pro Kit                      | £119.95 |
| SL700 + Loupe Kit                  | £109.95 |
| Loupe scope 5x                     | £59.95  |
| Loupe scope 7x                     | £64.95  |
| <b>Swabs &amp; Fluids IN STOCK</b> |         |

**SEKONIC**

|        |      |
|--------|------|
| L308S  | £149 |
| L358   | £239 |
| L758D  | £409 |
| L758DR | £469 |

**Manfrotto KITS**

|                 |      |
|-----------------|------|
| 190XDB + 390RC2 | £119 |
| 055XDB + 804RC2 | £149 |

**METZ Flash Guns**

|                                     |      |
|-------------------------------------|------|
| 36 AF-4                             | £69  |
| 48 AF-1                             | £169 |
| 58 AF-1                             | £269 |
| 45 CL-4 (AA batt cage)              | £129 |
| 45 CL-4 NiCad                       | £169 |
| 45 CL-4 Digital NiMH including 3045 | £449 |
| 76-56 NiMH battery                  | £69  |
| 45-40 NiCad battery                 | £39  |

**Hoya Filters (Lots More See Web)**

| UV / Sky | Pro I D UV or SKY | Pro I D Protect | Circ Pol | Pro I D Circ Pol | YGOR, 81A,B,C, CU |
|----------|-------------------|-----------------|----------|------------------|-------------------|
| 49mm     | £14               |                 | £36      |                  | £18               |
| 52mm     | £16               | £34             | £37      |                  | £18               |
| 55mm     | £17               | £36             | £32      | £40              | £18               |
| 58mm     | £19               | £38             | £34      | £47              | £80               |
| 62mm     | £24               | £44             | £38      | £62              | £98               |
| 67mm     | £30               | £49             | £42      | £67              | £94               |
| 72mm     | £39               | £55             | £45      | £72              | £114              |
| 77mm     | £47               | £59             | £49      | £79              | £132              |
| 82mm     | £66               | £89             | £60      | £110             | £148              |
| 86mm     | £85               |                 |          | £149             | £160              |
| 95mm     | £110              |                 |          |                  |                   |

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**WE STOCK IN DEPTH! GITZO, MANFROTTO, TAMRAC, LOWEPRO, CRUMPLER etc.**



## WANTED USED EQUIPMENT

**CANON, NIKON, MINOLTA, LEICA, PENTAX, BRONICA, HASSELBLAD, FUJI, MAMIYA, 5x4 & 6x9** cameras, lenses etc on commission sale, part exchange or cash. *Collection can be arranged.*

**EQUIPMENT** 3 month warranty on most equipment listed. P&P Extra.

|                           |              |                        |                   |                        |                      |                          |                   |                        |       |                       |        |                          |       |                        |       |
|---------------------------|--------------|------------------------|-------------------|------------------------|----------------------|--------------------------|-------------------|------------------------|-------|-----------------------|--------|--------------------------|-------|------------------------|-------|
| <b>CANON</b>              | Metz SCA 386 | \$149                  | 300 F7.2 not digl | \$149                  | <b>CONTEXT Q R/F</b> | G2 silver body           | \$379             | 135 black              | \$179 | 28-105 F3.5/5.4       | \$199  | 18-200 F3.5/5.6 DIII     | \$169 | Tam 28-300 XR Di       | \$169 |
| 1DS MKIII box             | \$3699       | Pro lens hood E        | \$69              | 2 conv Ex              | \$139                | G2 silver body           | \$379             | 35-80 F4/5.6           | \$299 | 30-80 F4/5.6          | \$299  | 18-250 F3.5/5.6 DII      | \$249 | Tam 70-300 Di M        | \$399 |
| 10S MKIII                 | \$2499       | Most hoods each        | \$24              | <b>OTHER CAF</b>       |                      | 16 F8 + VF M             | \$749             | FEA01 prism M          | \$279 | 70-200 F2.8 GD        | \$1099 | 19-35 F3.5/5.4 Mint      | \$99  | <b>PKAF FLASH GUNS</b> |       |
| 1DIII box                 | \$1999       | M bracket              | \$49              | CZ 85mm F1.4 M         | \$799                | <b>DARKROOM</b>          | LPL7700           | Plain prism (super)    | \$299 | 80-200 F4.5/5.6       | \$89   | 20-30 F2.7/3.5           | \$149 | AF240F                 | \$399 |
| 1D MKIII body M           | \$1699       | <b>BRONICA SQ/SQAI</b> |                   | TAM 17-50 F2.8 XR DIII | \$699                | <b>LJULI MED FORMAT</b>  | GX680 II body     | Plain prism early      | \$99  | 100-300 F3.5/5.6 D    | \$229  | 28-200 F3.5/5.6 XR       | \$99  | AF280T                 | \$399 |
| 1D MKIII body L           | \$1599       | SQAI body              | \$299             | TAM 19-35 F3.5/4.5     | \$69                 | GX680 II body            | \$299             | AE Prism Super         | \$169 | 2x APO D conv         | \$249  | 28-300 XR Di VC M        | \$399 | AF500 FTZ              | \$89  |
| 1D MKIII                  | \$999-1499   | SQ body                | \$99              | TAM 28-75 F2.8         | \$249                | Prism for GX680          | \$149             | WLF 645 Super/Pro      | \$79  | 18-50 F3.5/5.6 DC     | \$59   | 55-200 F4.5/5.6 DII      | \$49  | Cable Switch F         | \$20  |
| 5D body                   | \$799-999    | CDS Chimney            | \$99              | TAM 28-200 XR Di box   | \$399                | 65 15.6 GX680            | \$349             | WLF early              | \$149 | 55-200 F4.5/5.6 DC    | \$119  | 70-300 F4.5/5.6 DII      | \$79  | Extension Cord F       | \$20  |
| 40D body                  | \$499        | AE Prism               | \$149             | TAM 28-300 XR Di       | \$169                | 250 F5.6 GX680           | \$349             | Angle finder           | \$149 | 20-200 F4.5/5.6 DC    | \$99   | Kenko 1.5x DG            | \$79  | <b>PENTAX 35MF</b>     |       |
| 45D body                  | \$369        | 45° S Prism            | \$99              | TAM 90 F2.8 Di M       | \$279                | GX617 + 90 F5.6          | \$299             | Winder                 | \$149 | 70-210 F2.8 APO       | \$299  | Kenko Pro 300 3x         | \$99  | Program A body         | \$79  |
| 300 body box              | \$369        | 40 F4 S box            | \$299             | TAM 200-400 F5.6       | \$299                | GA645 60mm M             | \$299             | 45 F2.8 N M - box      | \$299 | 400 F5.6              | \$149  | <b>NIKON ACCESSORIES</b> |       | K1000 body chr         | \$79  |
| 400D body                 | \$279        | 50 F3.5 PS             | \$249             | TOK 200-500 F5.6/3     | \$499                | GW690                    | \$599             | 50 F4 shift M          | \$399 | INDIE MINOLTA AF      |        | MB-10 (F90X)             | \$29  | P30 body               | \$69  |
| 20D body                  | \$249        | 50 F3.5 S              | \$129             | TELEP 20-35 F3.5/4.5   | \$99                 | <b>QITZO</b>             | G1270 head        | 55-110 F4.5 N M        | \$379 | Sony 18-70 F3.5/5.6   | \$669  | MB-15                    | \$69  | ME Super body          | \$49  |
| 350D body                 | \$229        | 65 F4 PS               | \$169-199         | <b>CANON FLASH</b>     |                      | G1270 head               | \$59              | 55-110 F4.5 N          | \$249 | MC12A Release         | \$12   | MC12B Release            | \$30  | Motordrive A           | \$99  |
| 10D body                  | \$199        | 110 F4 PS macro        | \$299             | 300EZ, 2830EX          | \$119                | G1275M                   | \$89              | 55-110 F4.5 N          | \$249 | MC20.169 MH-30C149    | \$30   | 28-80 F3.5 shift M       | \$599 | 28-80 F3.5/5.4         | \$169 |
| 300D body                 | \$169        | 135 F4 PS M - box      | \$199             | 420E, E119 300EX       | \$129                | G1370                    | \$299             | 80 F2.8 N              | \$39  | MF-21 (801)           | \$39   | 35-80 F2.8/3.5           | \$39  | 35-80 F4.5/5.6         | \$39  |
| 300D body                 | \$149        | 547 F4 PS              | \$179             | 547 F4Z, 599 550EX     | \$219                | <b>DEMO STOCK</b>        | G1377M            | 105-210 F4.5 ULD M     | \$379 | 2000L 169 400HS       | \$39   | 35-80 F4.5/5.6           | \$39  | 35-80 F4.5/5.6         | \$39  |
| BG-E3                     | \$79         | 150 F3.5 S             | \$99              | 580CX                  | \$249                | G1378M                   | \$134             | 150 F4 C               | \$39  | 300AF                 | \$169  | <b>NIKON FLASH</b>       |       | 50 F1.7 449 50 F2      | \$39  |
| BG-E4, E139 BG-E5         | \$99         | 200 F4.5 S             | \$149-199         | 580EX MKII box         | \$249                | G1378M                   | \$149             | Extension tubes 1, 2   | \$39  | RC1000L               | \$39   | R1-C1 kit box            | \$469 | 50 F4 macro            | \$129 |
| <b>FUJI</b>               |              | 2x ext PS M            | \$299             | CP-E4                  | \$99                 | <b>HASSELBLAD XPAN</b>   | XPAN + 45 scruffy | 03 or 3S each          | \$49  | RC1000S               | \$34   | SB-22C29 SB-22S          | \$39  | 80-200 F4.5            | \$169 |
| S2 body box               | \$249        | 2x extender S          | \$129             | MR14EX ringflash       | \$349                | 90 F4                    | \$499             | Teleplus 2x conv       | \$69  | VC-7 (Dynax 7)        | \$129  | SB-23C9 SB-26            | \$89  | 120 F2.8               | \$39  |
| <b>MINOLTA/SONY</b>       |              | S18 or S36 ext tube    | \$129             | SB-E2 transm box       | \$99                 | 90 F4                    | \$499             | <b>MAMIYA TLR 6x6</b>  |       | VC-700 (700/800S)     | \$39   | SB-28C9 SB-30            | \$69  | 135 F3.5 Compact       | \$49  |
| Sony VGB3 grip            | \$99         | SQAI 120               | \$69              | <b>ACCESSORIES</b>     |                      | 135 F4                   | \$129             | C330F body             | \$169 | <b>MINOLTA MD</b>     |        | SB-28DX                  | \$129 | 2x rear converter      | \$99  |
| Minolta VC7D grip         | \$179        | 120J back (645)        | \$69              | SC-E2                  | \$119                | <b>HASSELBLAD 645</b>    | H1 inc 80 + prism | C330S body             | \$199 | XE1 chr/blk body      | \$129  | SB-80DX                  | \$129 | AF200S flash           | \$29  |
| <b>NIKON</b>              |              | 120J back (645)        | \$69              | ERA-E1                 | \$99                 | H1 inc 80 + prism        | \$199             | C330S body             | \$199 | ALL X700 body         | \$79   | SB-800                   | \$239 | AF220T/229 AF280T      | \$59  |
| D300 body                 | \$969        | 135N back              | \$79              | LC-5 set               | \$249                | 120 + back M             | \$1999            | Porrolux               | \$49  | X300 body chr         | \$49   | SC-17 cable              | \$99  | <b>PENTAX 645 AF</b>   |       |
| D2XS body box             | \$899        | Polaroid Back          | \$39              | PBE-2 drive            | \$149                | H1 100 Mag Polaroid E149 | \$699             | <b>MAMIYA 7 RF 6x7</b> |       | 28 F2.8 MD            | \$29   | SC-17 cable              | \$99  | 645NII + 75 etc        | \$899 |
| D2HS body                 | \$899        | Speed grip             | \$99              | PBE-1 drive            | \$49                 | <b>HASSELBLAD 645</b>    | 7 body            | 7 body                 | \$379 | 28 F2.8 MD            | \$29   | SC-17 cable              | \$99  | 645N + 75 F2.8         | \$499 |
| D2H body scruffy          | \$499        | Macro auto bellows     | \$199             | VG-10 Grip EOS F5      | \$225                | 503CX chr + 80 CF        | \$1599            | 7 body                 | \$379 | 35-70 F3.5 MD         | \$49   | SC-17 cable              | \$99  | 645NII body            | \$799 |
| D80 body M box            | \$419        | Hood 50 F3.5 PS        | \$35              | 60 T3 Remote (Fits     | \$25                 | + A12                    | \$1599            | 43 F4.5 box M          | \$369 | 35-105 F3.5/5.4 MD    | \$19   | SC-17 cable              | \$99  | 645NII body            | \$799 |
| D100 body box             | \$199        | Hood 105-150 S         | \$20              | 109, EOS 1N, 5 etc)    | \$15                 | 503CX blk comp           | \$1499            | 50 F4.5 + VF           | \$499 | 45 F2                 | \$129  | ALL FM2N bodies          | \$199 | 120 insert             | \$69  |
| D70 body                  | \$199        | Hood 65-80mm           | \$20              | Polaroid back for 1N69 | \$99                 | 503CX blk + 80 CF        | \$1499            | 50 F4.5 + VF           | \$499 | 55 F2.8 MD            | \$29   | F2 CLEAR                 | \$249 | FA 45                  | \$499 |
| D50 body box              | \$179        | Metz SCA 386           | \$49              | Command back E         | \$39                 | 80 F4 C                  | \$399             | 80 F4 C                | \$399 | 100-200 F4 MD         | \$149  | F2 CLEAR                 | \$249 | FA 120 F4.5            | \$499 |
| MBD-200 (D200)            | \$119        | <b>BRONICA GS1 6x6</b> |                   | GR-20 Grip             | \$220                | 503CX + 80 CF F2.8       | \$1999            | 150/210 VF             | \$149 | 135 F2.8 MC           | \$29   | F2 + DP-1 + MD-3         | \$249 | FA 120 F4 macro        | \$349 |
| MBD-100 box               | \$69         | 250 F5.6 PG            | \$279             | <b>CANON FD</b>        |                      | + A12 chrome             | \$799             | Polarising filter      | \$110 | 135 F3.5 MC           | \$29   | + MB-2                   | \$349 | FA 200 F4              | \$299 |
| EH-4                      | \$39         | 220 F5.6 PG            | \$279             | FIN + AE p + power     |                      | 503CX body               | \$399             | Panoramic kit          | \$69  | 135 F3.5 MC           | \$29   | FE2 body blk             | \$169 | FA 400 F5.6            | \$649 |
| MH-16 charger             | \$89         | 645 back (120)         | \$69              | winder FN              | \$349/\$399          | 503CX blk body           | \$599             | RB Pro SD + 6x7        | \$199 | 200 F4 MD             | \$69   | F301 body                | \$169 | Ext tube set           | \$129 |
| WT1A box                  | \$149        | Polaroid back          | \$39              | Action finder FN       | \$149                | 501CM + 80 + A12         | \$1099            | + 90 F3.5 KL           | \$499 | Viv 200 F3.5 Ser 1    | \$39   | 24 F2.8 AIS M            | \$239 | 2x rear conv           | \$179 |
| WT2 transmitter           | \$179        | Pro shade              | \$69              | T90 body               | \$169                | box M                    | \$1099            | + RFH                  | \$399 | <b>MD ACCESSORIES</b> |        | 24 F2.8 AIS M            | \$239 | Helicoid extension     | \$79  |
| LS40 scanner              | \$299        | TR shade               | \$69              | A1 body TO CLEAR       | \$99                 | 500CM chr + 80 CF        | \$1099            | RB Pro SD + 6x7        | \$199 | Auto Electric 28      | \$49   | 24 F2.8 AIS M            | \$239 | tube set               | \$79  |
| GP-1 box                  | \$179        | <b>CANON AF</b>        |                   | T70 body               | \$49                 | + A12                    | \$699             | Pro SD + 90 F3.8 C     | \$299 | Auto 280XP            | \$49   | 24 F2.8 AIS M            | \$239 | <b>PENTAX 645 MF</b>   |       |
| <b>OLYMPUS</b>            |              | EOS 1V HS mint         | \$899             | AE-1 body chr          | \$49                 | 500CM b/o blk nice       | \$219             | + RFH                  | \$399 | Auto 200 X            | \$25   | 35 F2.8 series E         | \$69  | 645 comp inc 75        | \$229 |
| 8 F3.5 fisheye M          | \$499        | EOS 1V body            | \$799             | AE-1 P chr body        | \$79                 | PME90                    | \$379             | RB Pro S + 90          | \$299 | Motor Drive 1 nice    | \$149  | 35 F2.8 shift            | \$299 | 645 body               | \$139 |
| TC07-14B                  | \$49         | EOS 1V body            | \$799             | EF body                | \$99                 | PME3 prism               | \$169             | + RFH                  | \$299 | Cable EX CD           | \$20   | 35-70 F3.3/4.5 AIS       | \$169 | 45 F2.8                | \$249 |
| WC07-OAB                  | \$49         | EOS 1N RS body         | \$399             | <b>FD LENSES</b>       |                      | PME prism                | \$169             | Pro SD body            | \$299 | Cable OC              | \$20   | 35-105 F3.5/4.5 AFS      | \$169 | 45 F2.8 scruffy        | \$149 |
| <b>PANASONIC</b>          |              | EOS 3 body             | \$199             | 17 F4                  | \$399                | PM90 prism               | \$199             | Pro S body             | \$179 | Off-Flash Sensor      | \$20   | 50 F1.8 AIS              | \$99  | 55 F2.8 scruffy        | \$149 |
| Lumix DMC L1K             | \$599        | EOS 1N HS body         | \$199             | 20 F2.8                | \$299                | PME prism                | \$169             | Pro SD RPH             | \$199 | Off-Camera Shoe       | \$20   | 80-200 F4 AIS            | \$249 | 80-160 F4.5            | \$299 |
| <b>PENTAX</b>             |              | EOS 1 HS body          | \$169             | 20-35 F3.5 L           | \$299                | PM90 prism               | \$199             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| K10D body box             | \$299        | EOS 5 body nice        | \$39              | 45° prism early        | \$89                 | 45° prism late           | \$169             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| SD-5 F3.5/5.6             | \$49         | EOS 5 body scruffy     | \$49              | 24 F2.8                | \$39                 | WLF chr M                | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| <b>LEICA</b>              |              | EOS 500D body          | \$399             | 28 F2.8                | \$29                 | WLF chr M                | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| 18-55 F3.5/5.6            | \$149        | EOS 500D b/o ea        | \$39              | 35 F2.8                | \$49                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| <b>5x4</b>                |              | EOS 300 body           | \$49              | 35 F2.8                | \$49                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| 5x4                       |              | EOS 650 body box       | \$29              | 35-70 F4               | \$39                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Cambo SC 5x4              | \$249        | 10-22 F3.5/5.4 EFS     | \$499             | 35-70 F4.5             | \$39                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Ebony SW54 M              | \$1299       | 17-40 F4 L box         | \$529             | 35-105 F3.5/4.5 58mm   | \$699                | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Ebony 452 ext back        | \$299        | 17-85 F4/5.6 IS        | \$249             | 35-105 F3.5 72mm       | \$59                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Horsemann 54 LX           | \$379        | 18-55 F3.5/5.6 IS      | \$219             | 50 F1.4                | \$69                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Horsemann 63 RPH          | \$199        | 18-55 F3.5/5.6         | \$79              | 50 F1.8                | \$20                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Toyo 54 mono G            | \$349        | 18-200 F3.5/5.6 IS     | \$499             | 50 F3.5 macro          | \$99                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Schneider 80 F4.5 Super   | \$399        | 20-35 F3.5/4.5 U       | \$199             | 70-150 F4              | \$39                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Symmar XL M               | \$399        | 22-55 F4.5/5.6 U       | \$79              | 70-210 F4              | \$39                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Schneider 150 F5.6 Symmar | \$399        | 24-70 F2.8 L box       | \$999             | 75-200 F4.5            | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| LAPO MC M                 | \$599        | 24-105 F4 IS U         | \$749             | 80-200 F4              | \$69                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| 120 F5.6 APO Symmar       | \$229        | 28 F1.8 U              | \$299             | 100 F2.8               | \$169                | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| 210 F5.6 APO Symmar       | \$249        | 28-80 F3.5/5.6         | \$79              | 100 F4 mac             | \$199                | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Fuji quick load film      |              | 28-90 F3.5/5.6 III     | \$79              | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| holder II                 | \$139        | 28-135 F3.5/5.6 U      | \$129             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Polaroid 645 body         | \$109        | 28-135 F3.5/5.6 U      | \$129             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Polaroid 645i back        | \$99         | 35-105 F4.5/5.6 U      | \$199             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Polaroid 645i back        | \$99         | 35-105 F4.5/5.6 U      | \$199             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Polaroid 645i back        | \$99         | 35-105 F4.5/5.6 U      | \$199             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Polaroid 645i back        | \$99         | 35-105 F4.5/5.6 U      | \$199             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Polaroid 645i back        | \$99         | 35-105 F4.5/5.6 U      | \$199             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Polaroid 645i back        | \$99         | 35-105 F4.5/5.6 U      | \$199             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
| Polaroid 645i back        | \$99         | 35-105 F4.5/5.6 U      | \$199             | 100-300 F5.6           | \$29                 | A12 latest blk M         | \$249             | Pro SD RPH             | \$199 | Flash                 | \$20   | 100-300 F5.6 AIS         | \$149 | 135 F4 leaf            | \$249 |
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- Magnesium alloy body
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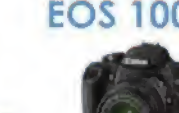
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| EF 17-40mm f4 L                | £839.99   |
| EF-S 17-55mm f2.8 IS USM       | £819.99   |
| EF-S 17-55mm f2.8 IS USM       | £429.99   |
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| EF 24-85mm f3.5-4.5 USM        | £259.99   |
| EF 28-105mm f3.5-4.5 U / Z     | £249.99   |
| EF 28-135mm f3.5-5.6 USM       | £379.99   |
| EF 28-200mm f3.5-5.6 USM       | £334.99   |
| EF 35-200mm f4.5-5.6 USM II    | £209.99   |
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| EF 70-200mm f4 L IS USM        | £999.99   |
| EF 70-200mm f4.0 L             | £539.99   |
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| MN 804RC2                       | £58.72  |
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| Monopod #678                    | £33.28  |
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|                            |      |
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Sigma 10 - 20mm f4 / 5.6 DC £399  
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Sigma 150 - 500mm OS £730  
Sigma 105mm Macro f2.8 EX DG £367  
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## USED CAMERAS

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| <b>LEICA</b> - Screw & M System    |     |      |
| M6 0.72 Black Body                 | E++ | £749 |
| 11IC Body                          | E++ | £399 |
| 11IF Body                          | E++ | £449 |
| <b>OLYMPUS</b> - Classic OM System |     |      |
| OM-4T Black Body                   | E++ | £399 |
| OM-2n Body                         | E++ | £119 |
| OM-1n & 50mm f1.8                  | E++ | £99  |
| XA11 & A11 Flash                   | E++ | £69  |
| <b>PENTAX</b> - K & KA Series      |     |      |
| KM Body                            | E++ | £79  |
| KX Body                            | E++ | £109 |
| MX & 50mm f2                       | E++ | £129 |
| P30T Body                          | M-  | £79  |
| P30T & 35-80mm                     | M-  | £119 |
| P30T & Miranda 35-70               | E++ | £69  |
| <b>MISC</b> - Classic Cameras      |     |      |
| Balda Mini 35                      | M-  | £49  |
| Iloca Stereograms                  | E++ | £349 |
| Lomamat C35                        | E++ | £149 |
| Widelux F7                         | E++ | £549 |

## USED LENSES

|                              |       |       |
|------------------------------|-------|-------|
| <b>CANON EF &amp; EF-S</b>   |       |       |
| 14mm f2.8L USM (B) ExD       | £1199 |       |
| 20mm f2.8 USM                | E++   | £329  |
| 50mm f1.8 USM                | E++   | £4550 |
| Sigma 12-24mm EX             | M     | £599  |
| 17-55mm f2.8 EF-S            | M     | £649  |
| 17-85mm EF-S IS              | M     | £329  |
| 28-135mm IS USM              | M     | £299  |
| 55-200mm USM II              | M     | £119  |
| 1.4x EF Extender             | ExD   | £249  |
| <b>CANON FD</b>              |       |       |
| 24mm f2.8 SSC B/L            | E++   | £99   |
| 35-70mm f3.5-4.5             | E++   | £39   |
| 35-70mm f4                   | E++   | £29   |
| 100-200mm f5.6               | E++   | £39   |
| <b>MINOLTA/SONY AF</b>       |       |       |
| 50mm f1.7                    | M-    | £119  |
| 100-300mm f4.5-5.6           | E++   | £139  |
| <b>NIKON AI/AIS &amp; AF</b> |       |       |
| 50mm f1.8 AIS                | E++   | £59   |
| 55mm f2.8 Macro AIS          | E++   | £179  |
| 85mm f2 AIS                  | E++   | £199  |
| <b>OLYMPUS - OM</b>          |       |       |
| 16mm f3.5 Fisheye            | M-    | £699  |
| 28mm f2.8                    | E++   | £39   |
| 35mm f3.5 Shift              | M-    | £379  |
| 50mm f2.8 Macro              | E++   | £399  |
| 50mm f3.5 Macro              | M-    | £99   |
| 80mm f4 Macro                | E++   | £179  |
| 600mm f6.5 (Case)            | E++   | £549  |
| 35-70mm f3.6                 | E++   | £119  |
| 35-105mm f4                  | E++   | £119  |
| 65-200mm f4                  | E++   | £149  |
| 2x Tele-Con                  | E++   | £69   |
| <b>PENTAX - PK/PKA</b>       |       |       |
| 18mm f3.5 PK                 | E++   | £349  |
| 28mm f2.8 PKA                | E++   | £79   |
| 35mm f2.8 PKA                | E++   | £39   |
| 100mm f4 Macro PK            | M-    | £179  |
| 35-70mm PKA                  | E++   | £79   |
| 35-105mm f3.5 PKA            | E++   | £129  |

## NEW Lenses

|                          |       |       |
|--------------------------|-------|-------|
| <b>Canon</b>             |       |       |
| <b>EF SERIES</b>         |       |       |
| 15mm f2.8                | ..... | £599  |
| 20mm f2.8 USM            | ..... | £409  |
| 24mm f2.8                | ..... | £369  |
| 28mm f1.8 USM            | ..... | £389  |
| 28mm f2.8                | ..... | £165  |
| 35mm f2                  | ..... | £219  |
| 50mm f1.4 USM            | ..... | £299  |
| 50mm f1.8                | ..... | £95   |
| 50mm f2.5 Macro          | ..... | £235  |
| 85mm f1.8 USM            | ..... | £315  |
| 100mm f2 USM             | ..... | £299  |
| 100mm f2.8 Macro USM     | ..... | £439  |
| 135mm f2.8 Soft Focus    | ..... | £349  |
| 24-85mm f3.5-4.5 USM     | ..... | £229  |
| 28-105mm f3.5-4.5 USM II | ..... | £249  |
| 28-135mm f3.5-5.6 IS USM | ..... | £379  |
| 28-200mm f3.5-6.3 IS USM | ..... | £329  |
| 70-300mm f4-5.6 IS USM   | ..... | £439  |
| 75-300mm f4-5.6 III      | ..... | £199  |
| 75-300mm f4-5.6 USM III  | ..... | £239  |
| <b>EF-S SERIES</b>       |       |       |
| 60mm f2.8 Macro USM      | ..... | £369  |
| 10-22mm f3.5-4.5 USM     | ..... | £669  |
| 17-55mm f2.8 IS USM      | ..... | £819  |
| 17-85mm f3.5-5.6 IS USM  | ..... | £429  |
| 18-55mm f3.5-5.6 IS      | ..... | £159  |
| 18-200mm f3.5-6.3 IS     | ..... | £499  |
| 55-250mm f4-5.6 IS       | ..... | £229  |
| <b>L PRO SERIES</b>      |       |       |
| 14mm f2.8L USM II        | ..... | £1909 |
| 24mm f1.4L USM II        | ..... | £1359 |
| 35mm f1.4L USM           | ..... | £1169 |
| 50mm f1.2L USM           | ..... | £1299 |
| 85mm f1.2L USM           | ..... | £1799 |
| 200mm f2.8L USM II       | ..... | £645  |
| 300mm f4L IS USM         | ..... | £1189 |
| 400mm f5.6L USM          | ..... | £1129 |
| 16-35mm f4L IS USM       | ..... | £1215 |
| 17-40mm f4L USM          | ..... | £639  |
| 24-70mm f2.8L USM        | ..... | £1049 |
| 24-105mm f4L IS USM      | ..... | £959  |
| 70-200mm f2.8L IS USM    | ..... | £1619 |
| 70-200mm f4L IS USM      | ..... | £989  |
| 100-400mm f4.5-5.6L IS   | ..... | £1319 |
| 1.4x EF Extender         | ..... | £289  |
| 2x EF Extender           | ..... | £289  |

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18-55mm IS & 55-250mm IS TWIN KIT

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**Only £499**

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70-300mm APO Macro ..... £179

150-500mm APO HSM ..... £710

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12-24mm f4G DX ..... £679

17-55mm f2.8G DX ..... £599

70-200mm f2.8 VR ..... £1459

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## Tokina

**11-16mm f2.8 PRO DX**

**£489**

10-17mm AT-X FE ..... £479

12-24 f4 PRO II ..... £499

16-50mm f2.8 PRO ..... £599

35mm f2.8 Macro ..... £359

100mm f2.8 Macro ..... £349

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## USED SALE

|                      |      |           |
|----------------------|------|-----------|
| <b>CANON</b>         |      |           |
| 100mm f4 Macro FD M- | £199 | £179      |
| <b>LEICA</b>         |      |           |
| M2 Body              | E+   | £649 £549 |
| <b>OLYMPUS</b>       |      |           |
| 21mm f3.5            | M-   | £329 £299 |
| 135mm f4.5 Macro     | M-   | £249 £219 |
| 180mm f2.8           | M-   | £599 £349 |
| 180mm f2.8           | M-   | £499 £379 |
| 50-250mm f5          | M-   | £599 £349 |
| 2x Tele-Con          | M-   | £89 £69   |
| F280 Flash           | E++  | £119 £99  |
| <b>PENTAX</b>        |      |           |
| ES Black Body        | E++  | £199 £129 |
| ESII Black Body      | E++  | £179 £129 |
| 85mm f2.2 Soft PK    | M-   | £399 £349 |
| 28-50mm PK           | M-   | £149 £99  |

## MINOLTA/SONY AF

|                              |     |      |
|------------------------------|-----|------|
| 50mm f1.7                    | M-  | £119 |
| 100-300mm f4.5-5.6           | E++ | £139 |
| <b>NIKON AI/AIS &amp; AF</b> |     |      |
| 50mm f1.8 AIS                | E++ | £59  |
| 55mm f2.8 Macro AIS          | E++ | £179 |
| 85mm f2 AIS                  | E++ | £199 |
| <b>OLYMPUS - OM</b>          |     |      |
| 16mm f3.5 Fisheye            | M-  | £699 |
| 28mm f2.8                    | E++ | £39  |
| 35mm f3.5 Shift              | M-  | £379 |
| 50mm f2.8 Macro              | E++ | £399 |
| 50mm f3.5 Macro              | M-  | £99  |
| 80mm f4 Macro                | E++ | £179 |
| 600mm f6.5 (Case)            | E++ | £549 |
| 35-70mm f3.6                 | E++ | £119 |
| 35-105mm f4                  | E++ | £119 |
| 65-200mm f4                  | E++ | £149 |
| 2x Tele-Con                  | E++ | £69  |
| <b>PENTAX - PK/PKA</b>       |     |      |
| 18mm f3.5 PK                 | E++ | £349 |
| 28mm f2.8 PKA                | E++ | £79  |
| 35mm f2.8 PKA                | E++ | £39  |
| 100mm f4 Macro PK            | M-  | £179 |
| 35-70mm PKA                  | E++ | £79  |
| 35-105mm f3.5 PKA            | E++ | £129 |

## EF-S SERIES

|                         |       |       |
|-------------------------|-------|-------|
| 60mm f2.8 Macro USM     | ..... | £369  |
| 10-22mm f3.5-4.5 USM    | ..... | £669  |
| 17-55mm f2.8 IS USM     | ..... | £819  |
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| Mamiya RB67 250mm f4.5 Sekor C MINT BOXED                | £340 | Yashica CS-201 flash, VGC, boxed, working well            | £25  |
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**FREE 'extras' this coming weekend with every EOS 500D purchased**

The EOS 500D has just won the EISA European SLR Camera 2009-2010 award, and to celebrate we will be giving away Batteries, Memory Cards and Canon Bags to those who purchase a 500D this weekend. **Canon have a Part Exchange Deal** on their 50D & 500D and this finishes on 31st August. This is your last chance to take advantage of a £75 or £60 part exchange deal on these cameras.

**Canon EOS 5D II was named 'Camera Of The Year'** by Japan Camera Grand Prix (Japan's EISA/TIPA) on the 22nd of May 2009. This is Canon's 8th Grand Prix top award. In March, I was in China visiting factories and just happened to see the EOS-5DII fitting Delkin branded professional pop-up shade being made. This is now in stock at £34.99. The 5DII spare battery is £71.99. The BG-E6 battery grip is in stock, at the moment, at £274.99. At FOCUS ON IMAGING at NEC and PMA at Las Vegas, one may have noticed a super high tech version on display under glass by the same company who made those pro pop-up shades. There is no availability date or price yet but if you are interested in a grip with loads more features than the Canon BG-E6, please get in touch.

**STOP PRESS - The EOS 5D II has just been named as winner of the EISA Advanced Camera 2009-2010 Award.**

**Canon EOS 1000D - the current Amateur Photographer entry level DSLR 2009 winner and EISA consumer camera of the year 2008-9.**

In a recent Amateur Photographer, the Canon EOS 1000D went 'head to head' with the Pentax K-m and won convincingly! It has been drawn to my attention that this camera is now in short supply and especially the kit with the IS lens. Fortunately I still have stock of the IS kit - but numbers are limited. If you want one I would suggest that you contact me as quickly as you can.

**NEW 17mm & 24mm MKII TSE Lenses. Save up to 25% from Canon Guide Prices for Pre-ordering**

**This 17mm is the TIPA 2009 Professional Lens Of The Year**

**Canon new but un-boxed 'split-from-kit' standard zooms** available at great savings when and if in stock. These include the 10-22mm, 17-85mm, 18-55mm, 18-200mm, 24-105mm and 70-300mm U.S. Please ask if you need one of these lenses (18-200 shown here).

**Canon 60mm f2.8 Vs Tamron 60mm f2 Macro Lenses** The Canon lens is only around £350 so why pay nearly £200 more for the Tamron? At a full f-stop faster, the image is brighter on screen for focusing and viewing in Macro. Furthermore, if used as a portrait lens, the brighter screen and the shallower depth of field will make the Tamron vastly superior. If one adds the ET67B lenshood and a Canon protection filter, the difference in cost to the superior Tamron with lenshood and multi-coated digital filter will be less than £150! Well worth the difference if one can afford it.

**The Canon Digital IXUS 100IS** is the most compact IXUS ever yet is still packed with the latest features including high speed processor, HD video, scene/motion/face detection, optical image stabilization, intelligent contrast correction etc. It still retains an optical viewfinder! Very good value indeed at the newly reduced price of £220.

**The Canon BG-E2N grip** for the 40D/30D/20D, you are welcome to ask for a 20% discount if purchased with the 40D or 50D. Hahnel have delivered a new INFRAPRO grip which is similar to the BG-E2N but has an infra red receiver built-in and a remote control (like the Canon RC-1/RC-5 which would release the 400D as an I.R. receiver is built-in) included. What do you think of this extra feature? It can also save you a few ££££!

**The Canon TC-80N3 cabied release** with various timing features, at a guide price of £142.99, has been selling for over 10 years and is popular - but only up market EOS's with N3 fitting can benefit. A Chinese manufacturer has produced a very close 'copy' at around £75. As there are not many timer releases on the market nowadays, these Chinese releases can be supplied in Canon E3 fitting for EOS-300, 350, 400, 450, 1000, etc. as well as Nikon, Pentax, Konica/Minolta/Sony fittings, etc. The standard N3 fitting is in stock but the other fittings would be to specific order. Hahnel now supply a release which fits both the E3 and N3 with a 2 meter extension for only £29. As a promotion, if this is purchased with a camera and you mention this advertisement, we will give you 20% discount making it only £23.

**The Canon Flash Off-camera Shoe Cord OC-E3** has a guide price of £60.99. Alternatively, a Chinese version is available at around £30 but there is also a £40 version with extra 50% longer off-camera cable between the two shoes.

**Canon 580EX II** has a guide price of £539.99, but while pre increase price stocks last, I am still supplying this at £379; or better still, £385 with dome diffuser included. The CP-E4 compact battery pack is in stock at £189.99, or only £150 if purchased with the 580EX II. The OC-E3 is only £49.99 if purchased with a 580EX II.

**A 0.7x wide angle attachment** is available for the 18-55mm. This will bring the 18mm to about 13mm or in 35mm terms from 28mm wide angle to around 20mm! The Japanese 'PRO' item is £79 or £69 if purchased with an EOS with 18-55. These are available for Canon (58mm) as well as Nikon/Pentax (52mm).

**A 0.5x 58mm ultra wide and a Fisheye version** will be available by request.

**The Canon Powershot G10** with higher MP, wider angle zoom, improved battery, screen and input dials, etc. is offering staggering improvements on the G9. Accessories for G10 are: NB-7L Battery £65, Conversion Lens Adapter £35, 1.4X Tele Converter £104, Standard Case £23, De-Luxe 'traditional' Leather Case £56, Waterproof Case £176. Most accessories are in short supply. **The G10 has just won TIPA 2009 expert compact camera award**, so in most places it is in short supply. Some G7 & G9 accessories are still available so if you need any, we would suggest that you order them sooner rather than later. There is a NB-7L fitting battery for the G10 at only £23.00, less than half the price of the Canon version!

**Canon EF12II tube is £79.99 and EF25II tube is £149.99** but I can supply an EF/EFs compatible set with 12+20+36 at only £140. It has been tested by 'Amateur Photographer' and was given a 5 star top rating. The tubes can also be supplied individually though the 12mm is in short supply at the moment!!!!

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**IPC INSPIRE**



# Roger Hicks

## DON'T TELL ME THAT YOU DON'T HAVE ANY TIME TO TAKE PICTURES



**ROGER HICKS** is a much-published author on photography. He has written more than three dozen books on the subject, many in partnership with his wife, Frances Schultz. Roger started photography as a teenager in the 1960s and worked professionally in a London advertising studio in the mid-1970s. He has been a freelance photographer/writer since 1981, contributing to many photography magazines, including 'Shutterbug' in America. Visit his website at [www.rogerandfrances.com](http://www.rogerandfrances.com).

UNTIL recently, I had remained resolutely ignorant of Twitter. I had no need to know about it; it was a silly name (obligatory for many internet businesses, I know), and from what little I had heard or read it sounded spectacularly ghastly.

Then I got an email from Twitter, saying that someone I know wanted to use it to stay in touch, so I was obliged to learn a little about it. It is, it seems, even more ghastly than I had imagined: a sort of semi-literate stream-of-consciousness from people whose private (or indeed public) lives I have no desire to know more about. It is, in short, an electronic, continuous version of those awful round robins that some people send out at Christmas, telling you in excruciating detail where they went for their holidays, what their children are doing at school, and so on.

It is based on the assumption that everyone's life, no matter how infinitely boring it may be, and regardless of how poorly it is described and communicated, is of potential interest to the entire world. It is a bit like being a celebrity (defined as 'someone who is famous for being famous') without actually being famous.

Now, it is a fair comment that many readers learn more about me from reading this column than they might ever wish to know. It is also a fair comment that you don't have to log on to anyone's Twitter-stream of consciousness, just as you don't have to read this column. A third fair comment is that Twitter has been used for a number of interesting purposes by people who are at the centre of important affairs: the Moldovan protests earlier this year furnish an excellent example.

None of this is central to my argument, though. What I am much more interested in is where people find the time to Twitter. We are constantly reminded that we are 'time-poor', so whatever time they take to Twitter must be stolen from somewhere else. From watching television? From their employers? From photography?

All that I have ever read indicates that the first is unlikely: the square-eyed remain resolutely so. The second is distressingly likely, given the amount of time that people already waste during the working day on the internet. As for the third, well, a lot of people say they would take more pictures if they had the chance – but would they? Or would they continue to waste picture-taking time on other things?

This fundamental dishonesty about time is something I find increasingly interesting, perhaps because I am growing older and have less of it in front of me. As far as I can see, it is grounded in the Puritan belief that 'the Devil makes work for idle hands' (and presumably idle minds, too). Unless you are doing something 'productive' all the time, you are 'wasting' your time. I don't understand this. As long as you're not bored, are you really wasting your time? Doing something you don't want to do, and which

doesn't really need doing anyway, is surely the best definition of wasting time.

Worse still, this aversion to 'wasting' time often metamorphoses into being seen to do something, rather than actually doing anything. This is most

glaringly obvious in politics, where it is quicker and easier to rush through a piece of ill-considered but populist legislation than to think about the best way of tackling a problem. At work, it takes the form of 'presentism'. If you are physically present at your place of work, you are deemed to be working, even if you are wasting time Twittering. I can't help wondering how many people could work a four-day week, without any increase in the working day, if they worked full-time, or at least, closer to full-time.

By the same token, there are people who want to be seen as photographers, and people who take pictures. Indeed there are some people who take pictures who don't want to be seen as photographers, because they would rather work unobtrusively than show off their cameras. Then there's the time spent buying and selling cameras, talking about cameras, fondling cameras... Again, how much time do you spend on 'photography' and how much on taking pictures?

Not that there is anything wrong with doing other things than taking pictures – as long as it's what you want to do. Just don't spend time complaining that you don't have time to take pictures. **AP**

“Doing something you don't want to do, and which doesn't really need doing anyway, is surely the best definition of wasting time”



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